



Chapter - 1: Movie Editing Tools

Learning Objectives:

After Studying this unit the students will be able to:

- Understand the concept of Movie Editing Tool
- Get familiarize with multiple Movie Editing Tools
- Get depth knowledge of window movie maker tool
- Get familiarize with Interface Components
- Can perform splitting and combining of various Clips
- Can add titles and publish movie in Window Movie Maker

Introduction

There are many free video editing software programs available for download today, but not all of them are good. Many programs simply don't do what the manufacturers say that they will do, and others don't provide enough - or any support. Of course, most free software does not include the same level or quality of support that you would expect to find with software that you purchase commercially.

Movie Editing tools are editing software and we can also say them as application software which handles the post – Production video editing of digital video sequences on a computer non-linear editing system (NLE).

Hardware: Computer system

Software: Window Movie maker tool

1.1 Movie Editing Tools

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Of course, most free software does not include the same level or quality of support that you would expect to find with software that you purchase commercially.

While it is true that you get what you pay for, there really are some good free video editing software available out there. Here are the top frequently used, that we have found:



Windows Movie Maker 2.6: The first release of Windows Movie Maker was included with Windows ME in 2000, but it was not available in Windows 2000, which was released months before Windows ME.

Version 1.1 was included in Windows XP a year later, and included support for creating DV AVI and WMV 8 files. Version 2.0 was released as a free update in November 2002, and added a number of new features. Version 2.1, a minor update, is included in Windows XP Service Pack 2. Windows XP Media Center Edition 2005 introduced a new version of Windows Movie Maker, 2.5, with more transitions and support for DVD burning.

Microsoft has made version 2.6 of Movie Maker available for download, and it runs on both Windows Vista and Windows 7. While advanced users are likely using a more sophisticated video editing program, there's no denying that Movie Maker is an excellent, full-featured option for the average home user. Snapshot of window movie maker is depicted in Figure 1.1.

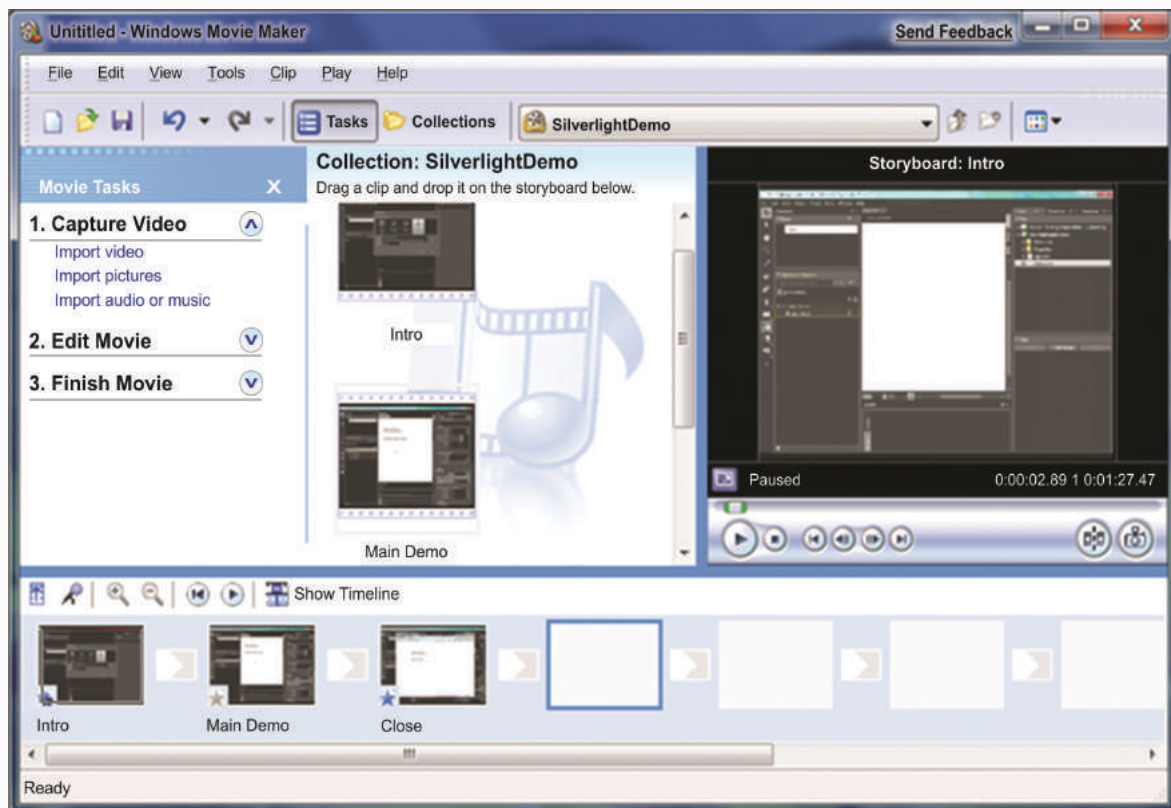


Figure-1.1: Snapshot of Window Movie Maker

VirtualDub: VirtualDub is a video capture/processing utility for 32-bit and 64-bit Windows platforms (98/ME/NT4/2000/XP/Vista/7), licensed under the GNU General Public License (GPL). It lacks the editing power of a general-purpose editor such as Adobe Premiere, but is streamlined for fast linear operations over video. It has batch-processing capabilities for processing large numbers of files and can be extended with third-party video filters. VirtualDub is mainly geared toward processing AVI files, although it can read (not write)



MPEG-1 and also handle sets of BMP images. In Figure 1.2 VirtualDub snapshot is represented.

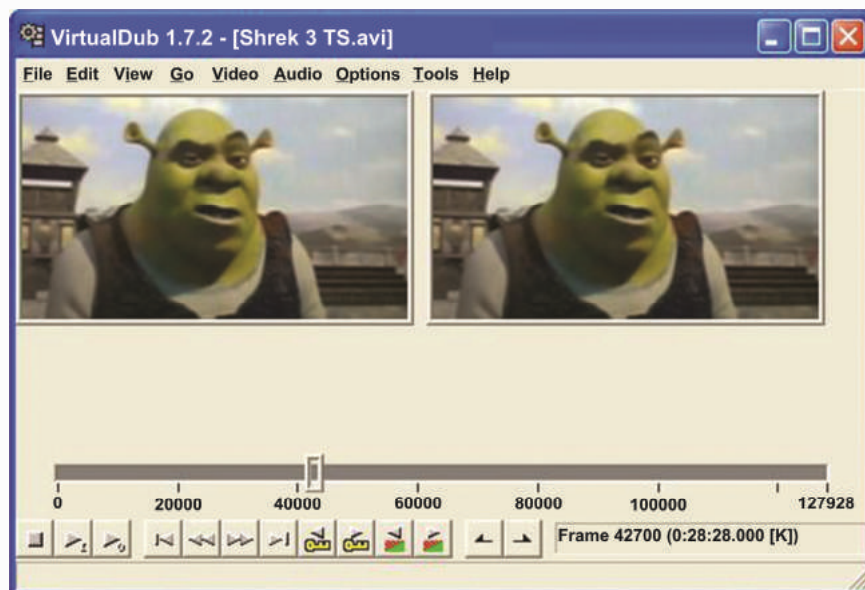


Figure-1.2: Snapshot of VirtualDub

T@b ZS4 Video Editor: ZS4 Video Editor is free to download and use. It is video editing and compositing software which aims to provide media experts with a facility to combine a variety of media types (currently photos, videos and audio files) into one or more output files. In figure 1.3 snapshot of this editor is represented.



Figure-1.3: Snapshot of T@b ZS4 Video Editor



Wax: Wax is a high performance and flexible video compositing and special effects software. The idea for Wax is to be very general purpose and flexible in video compositing and effects, so that you can compose your dream video sequence with ease every time. Wax can create 2D & 3D special effects and can work in two modes – as a standalone application which would appeal for home users/beginners, and as a “plug-in” to video editors/NLEs which would be more useful for professional editors. In figure 1.4 snapshot of this editor is represented.

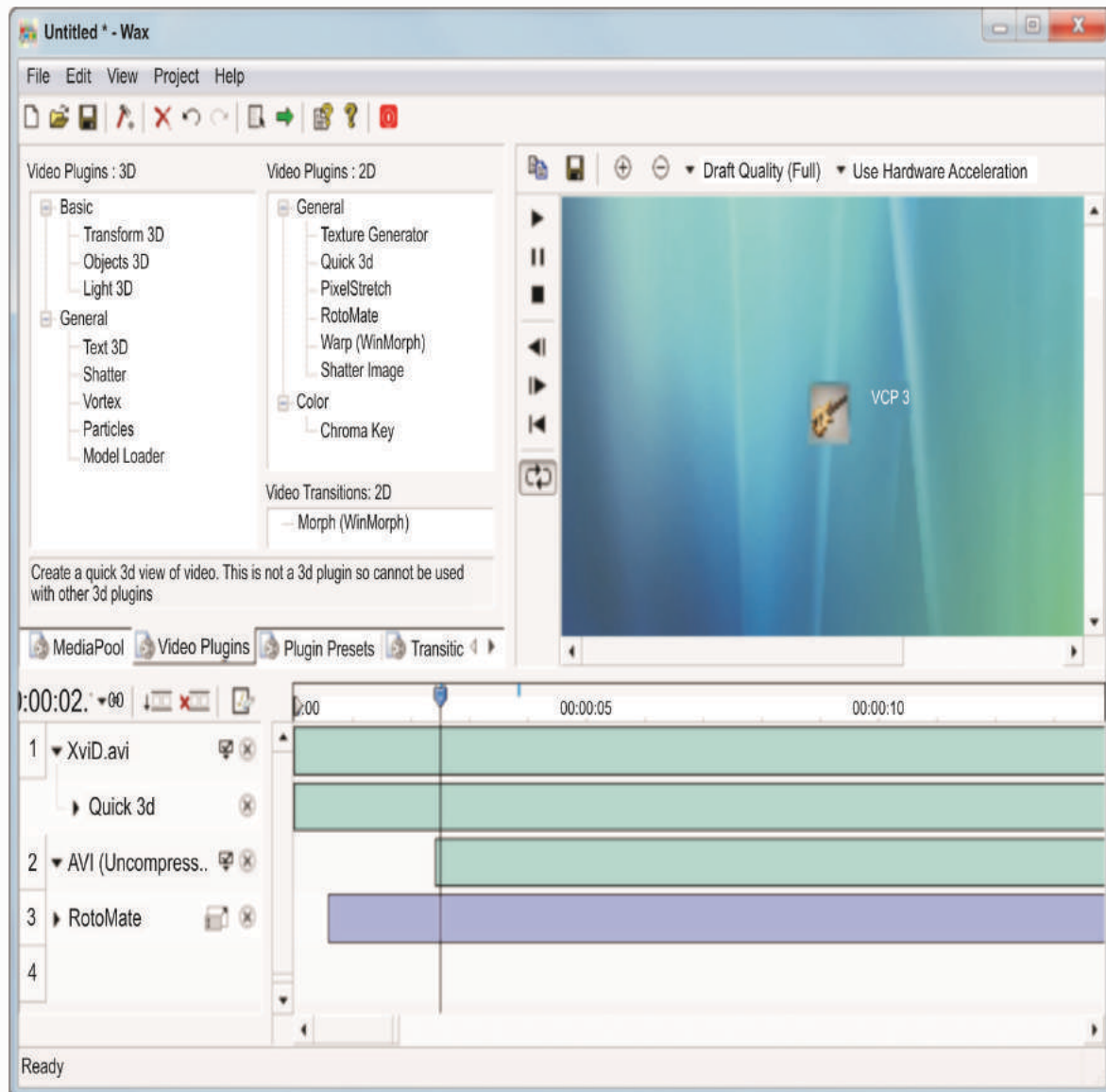


Figure-1.4: Snapshot of Wax. 5

Cinefx Jashaka: Cinefx is an offline playback, editing, encoding, animation and visual effects tool based on the Jahshaka technology that allows you to create professional digital media on your desktop. Use the tools that hollywood uses to create blockbuster films and special effects. In figure 1.5 snapshot of this editor is represented.

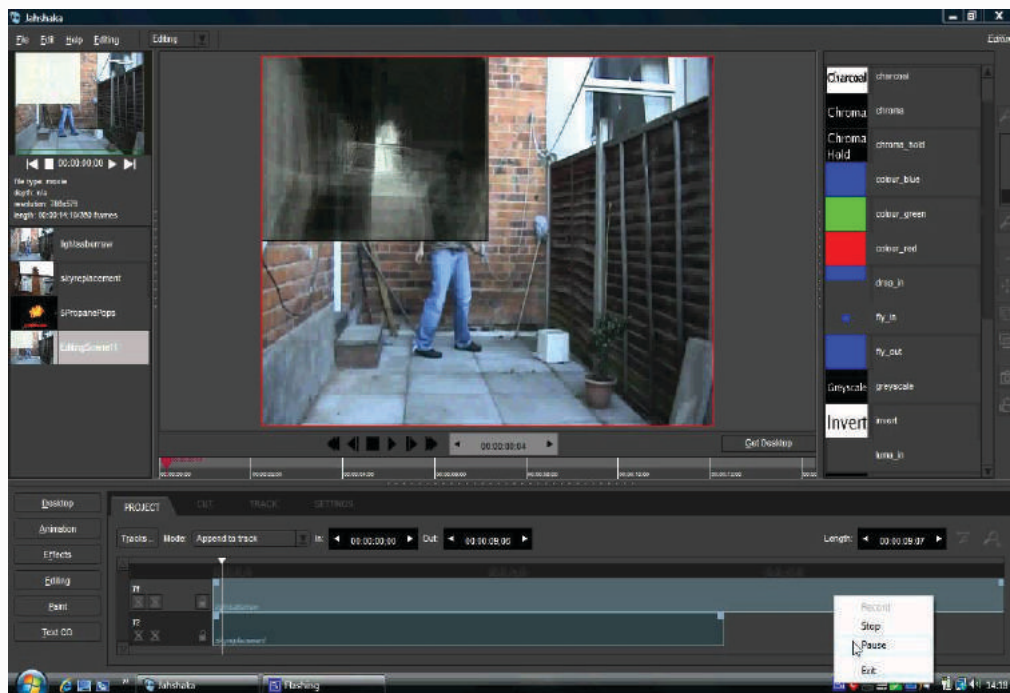


Figure-1.5: Snapshot of Cinefx Jashaka

Blender: Blender is the free open source 3D content creation suite, available for all major operating systems under the GNU General Public License. It is one of the powerful, multi-use editing/compositing and modeling tool. This tool allows you to edit, create 3D graphics, sound effects, add special effects and much more. In figure 1.6 snapshot of this editor is represented.

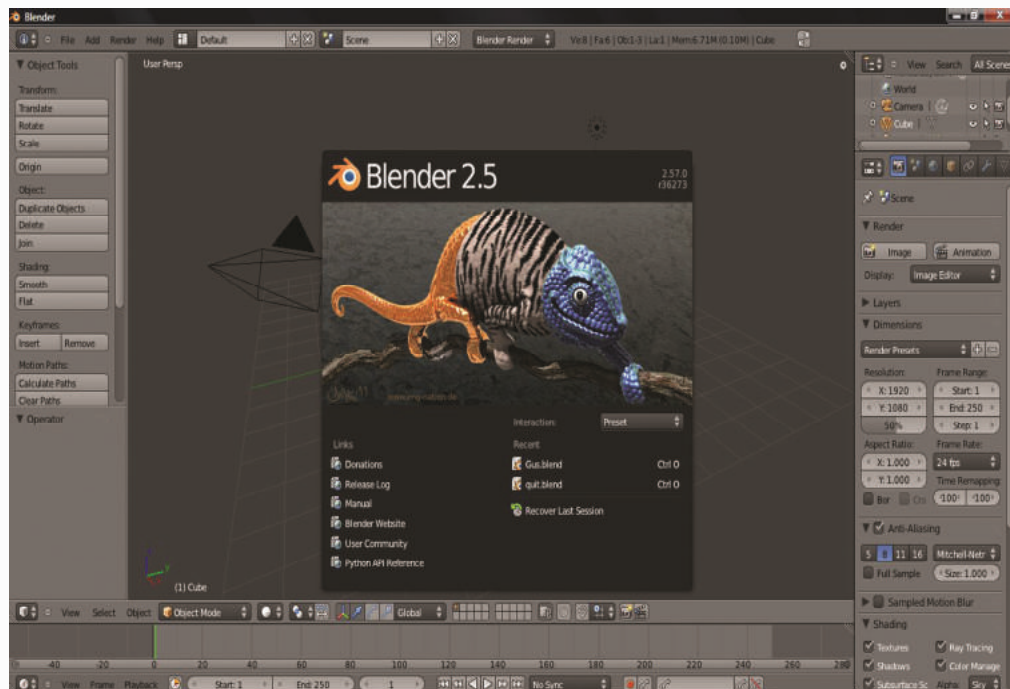


Figure-1.6: Snapshot of Blender



Avidemux: Avidemux is a free video editor designed for simple cutting, filtering and encoding tasks. It supports many file types, including AVI, DVD compatible MPEG files, MP4 and ASF, using a variety of codes. Tasks can be automated using projects, job queue and powerful scripting. In figure 1.7 snapshot of this editor is represented.

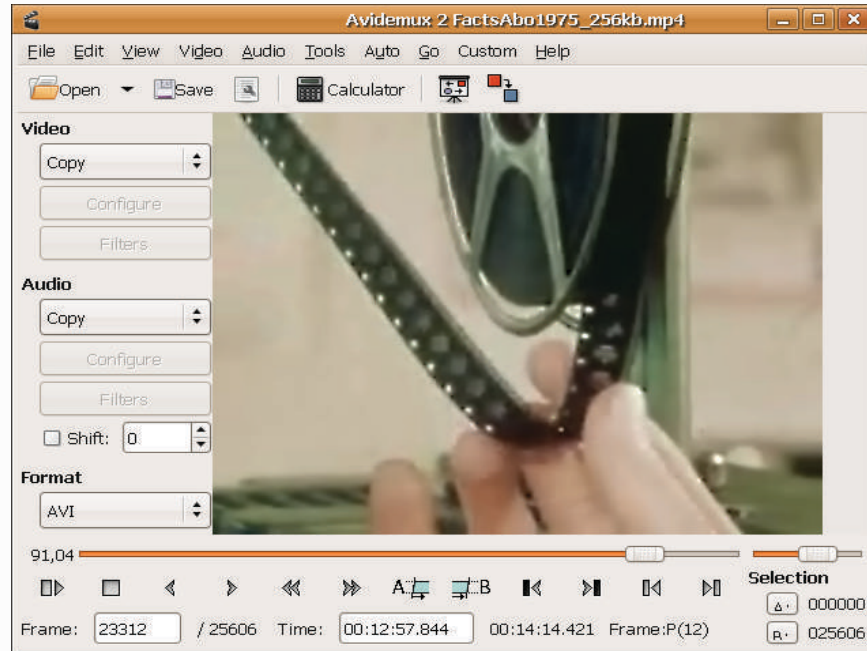


Figure-1.7: Snapshot of Avidemux 7

MovieStorm: Moviestorm is the complete 3D movie making software application for all abilities. Whether your movie interest is cartoons, crime, music, horror etc., you can create awesome animation effects using this software. In figure 1.8 snapshot of this editor is represented.

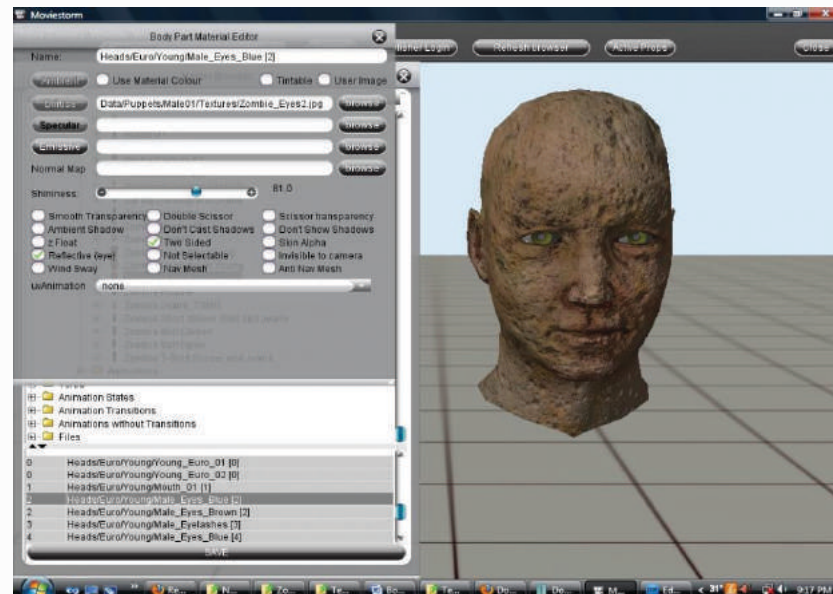


Figure-1.8: Snapshot of MovieStorm



Movica: Movica is just a graphical user interface that uses some fine programs to edit movie files. A great deal of emphasis has been placed on keyboard shortcuts to make the job of editing easier. Basically, it is meant for editing the kind of movies that VirtualDub won't. V-Dub is primarily an AVI editor, Movica will work on .wmv, .flv, .rm and .mpg files. This makes it more versatile than Virtualdub. In figure 1.9 snapshot of this editor is represented.

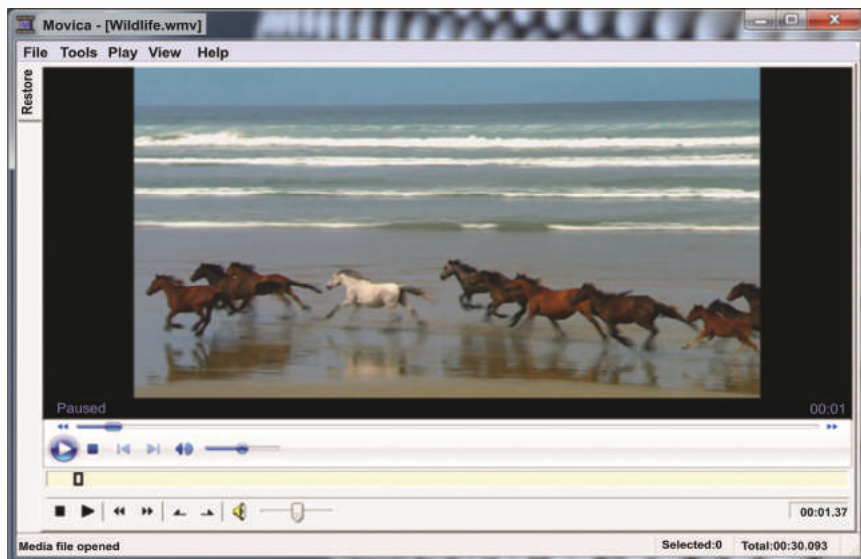


Figure-1.9: Snapshot of Movica

VideoSpin: VideoSpin, free editor based on Studio, does a pretty darn good job compared with most free video tools. It doesn't match the qualities of paid software's but perform basic editing and output movies pretty easily. In figure 1.10 snapshot of this editor is represented.



Figure-1.10: Snapshot of Video Spin



AVIedit: It is a great tool to work with .AVI files. Regardless of small executable size, this avi editor offers you unlimited power of digital video processing. AVI edit allows you to join and split avi files, extract frames and do whatever you want. You can capture video by number of ways, 9 including one-frame-per-minute (web camera) option, workaround annoying 2 GB file size limit, send your videos to printer, heavy compress it and post to your webpage. In figure 1.11 snapshot of this editor is represented.

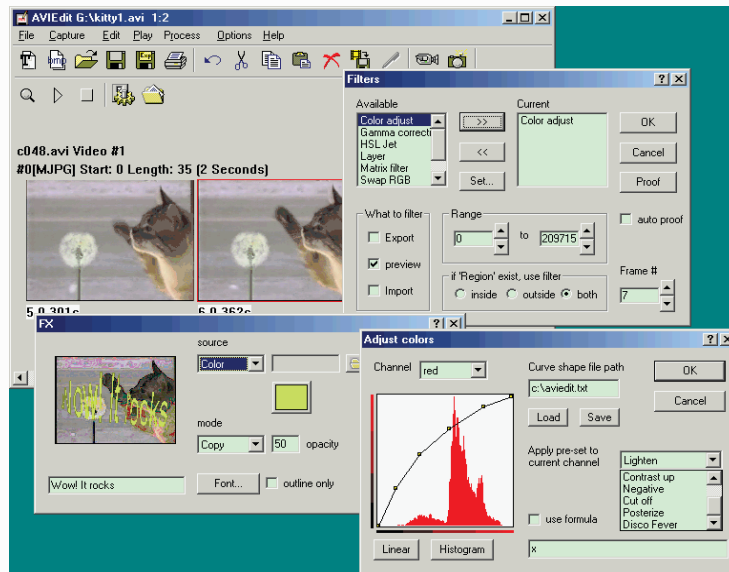


Figure-1.11: Snapshot of AVIedit

Storyboard Pro Software: Atomic Learning's FREE Video StoryBoard Pro is designed to give teachers, students, and home movie makers a tool to plan ahead when creating video projects. It features the ability to enter shot titles and descriptions, complete with planned lengths and edited order, indicate shot types: video, still, audio, music, or titles and much more. In figure 1.12 snapshot of this editor is represented.

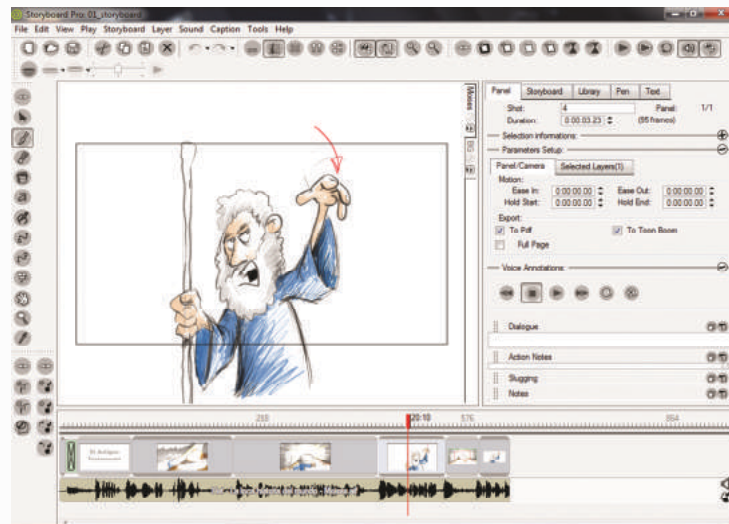


Figure-1.12: Snapshot of StoryBoard Pro Software



AVI Trimmer: The AVI Trimmer is a free video editor for fast and lossless AVI editing. This freeware AVI editor is small, smart, easy to use and involves no encoding/decoding processes. No video / audio degradation and out of sync problem arises after editing. All AVI file types of any size and video / audio content are supported. In figure 1.13 snapshot of this editor is represented.

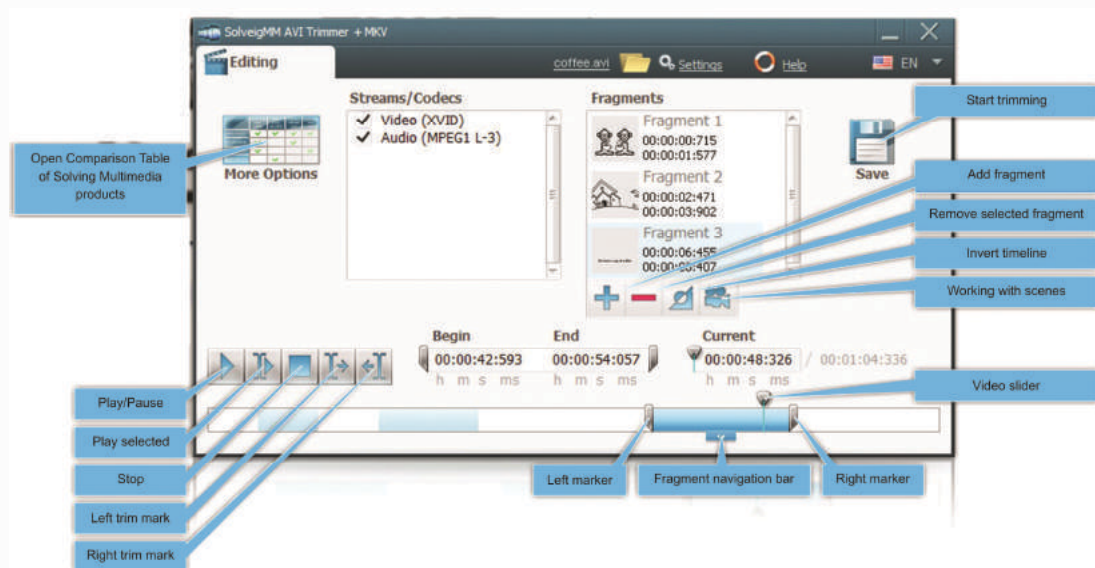


Figure-1.13: Snapshot of AVI Trimmer

Zwei-Stien Video Editor: Zwei-Stein 3.01 is a freeware non-linear, non-destructive video compositing and editing system which offers many advanced features unavailable elsewhere. With Zwei-Stein you can edit up to 256 video, audio and still image clips, each with up to 64 effects chained serially. Cropping, panning and custom effects are easy with automatic key frames. In figure 1.14 snapshot of this editor is represented.

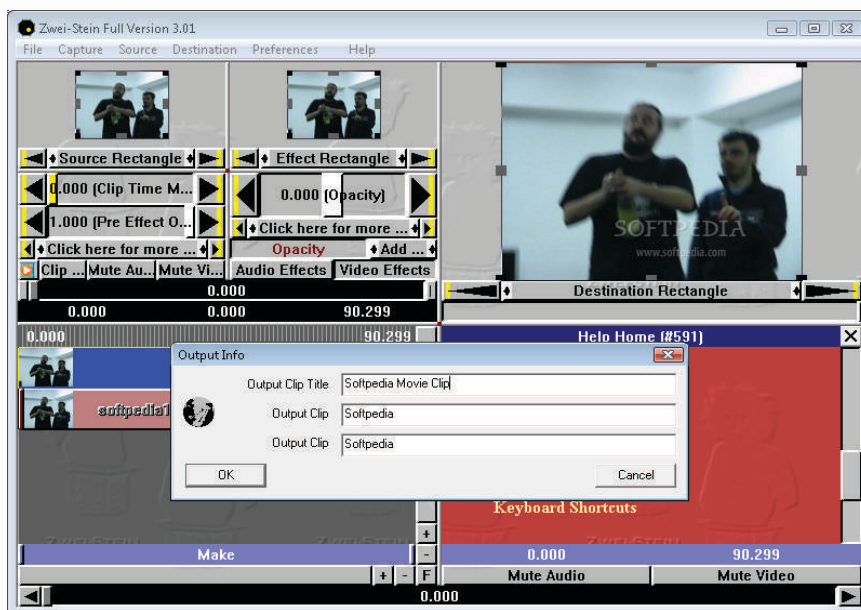


Figure-1.14: Snapshot of Zwei-Stien Video Editor



DVDVideoSoft Free: A pretty basic software to edit video and audio files. Free Studio is a single package which bundles all free software from DVDVideoSoft to work with DVD, video and audio files. With this free software you can convert video and audio files between different formats and to iPod, PSP, iPhone, BlackBerry and other portable devices; burn and rip DVDs and audio CDs; upload and download videos and music to your computer, iPod, PSP, iPhone and BlackBerry; perform basic editing of audio and video files. In figure 1.15 snapshot of this editor is represented.

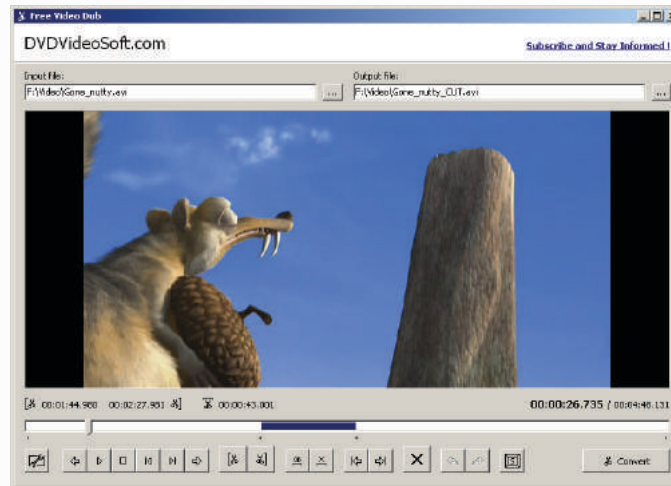


Figure-1.15: Snapshot of DVDVideoSoft Free

AVITricks Video Editor: AVITricks is a non-linear, non-destructive AVI video editor with real-time preview. It makes cutting and joining footage easy and includes a wide range of built-in adjustable effects that can be used separately or in combination. (Effects include dissolves, mirror image, sepia, iris effects, fades, TV-shop and many more.) Besides the preview screen, the video you are working on is also represented clearly 12 and graphically on a timeline and a tree-structure. Both of these fields are active and easy to work. In figure 1.16 snapshot of this editor is represented.

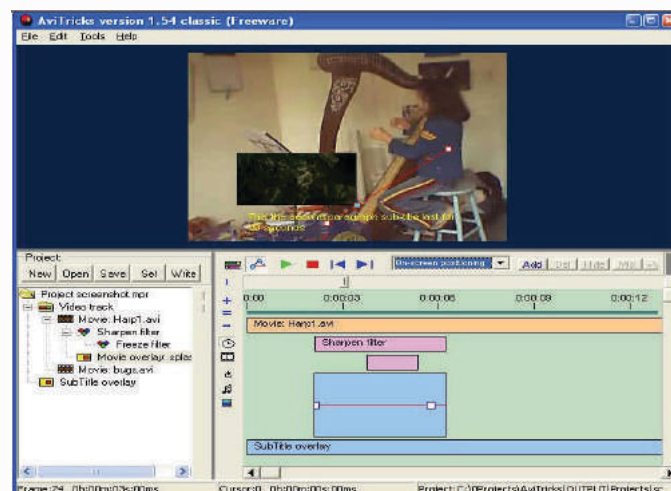


Figure-1.16: Snapshot of AVITricks Video Editor



DVD Knife: DVD Knife is a simple tool for extracting DVD clips from your DVD's. The clips will be stored in VOB format only. This is the simplest and fastest tool in its category which has ability to extract long VOB clips in few seconds. It's so simple that only three steps can extract the clip i.e. "Select start" – "Select end" – "Save". So get your favorite movie or film scenes stored separately now. It is compatible with Windows XP. I hope this little free tool will come for Vista or 7 in the future. In figure 1.17 snapshot of this editor is represented.

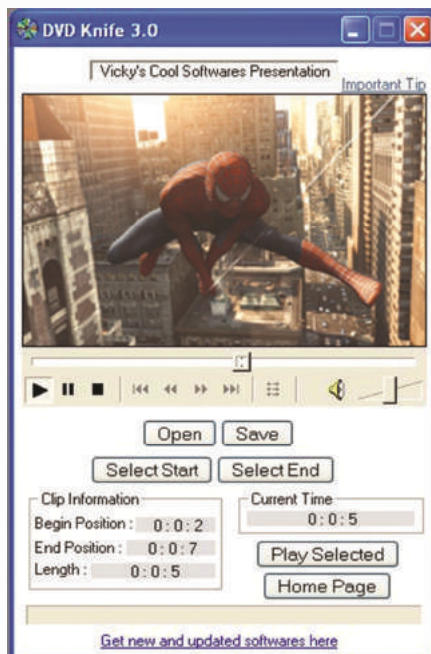


Figure-1.17: Snapshot of DVD Knife

Mewa Film: It is a non-linear editing tool, called montage (this name might change) where video files are shown as a sequence of images layed off horizontally. The video files can then be assembled and cutted using intuitive actions as "drag and drop" and "rubber band selection". In figure 1.18 snapshot of this editor is represented.

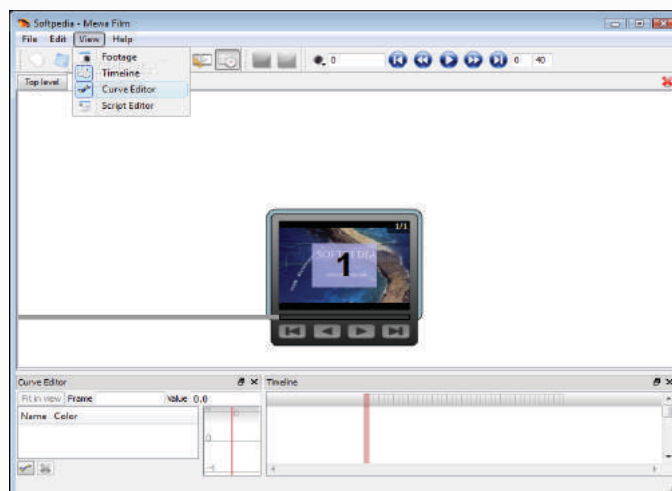


Figure-1.18: Snapshot of Mewa Film



Assessment:

Answer the following questions:

- Q1. Differentiate between the features of virtual dub, wax, movica and moviestorm.
- Q2. Explain the non linear editing tool which does horizontal layering.
- Q3. Which tool should be used for .avi files?
- Q4. Explain two non destructive and non linear tools for video editing

1.2 Familiarization of Interface Components

Windows Movie Maker is a feature of Windows Vista that enables us to create home movies and slide shows on our computer, complete with professional-looking titles, transitions, effects, music, and even narration. We can use Windows Movie Maker to publish our movie and share it with our friends and family.

Understanding the Windows Movie Maker Tools

Windows Movie Maker is divided into three main areas: the panes, the storyboard/timeline, and the preview monitor is mentioned in figure 1.19.



Figure-1.19: The Main Areas of Windows Movie Maker

About the Panes

Windows Movie Maker provides several different panes that are:

- The Tasks pane lists the common tasks that may be needed to perform while making a movie, including importing files, editing, and publishing your movie.



- The Collections pane displays our collection folders, which contain clips. The collection folders appear in the Collections pane on the left, and the clips in the selected collection folder are displayed in the Contents pane on the right. The following picture shows the Collections pane in figure 1.20:

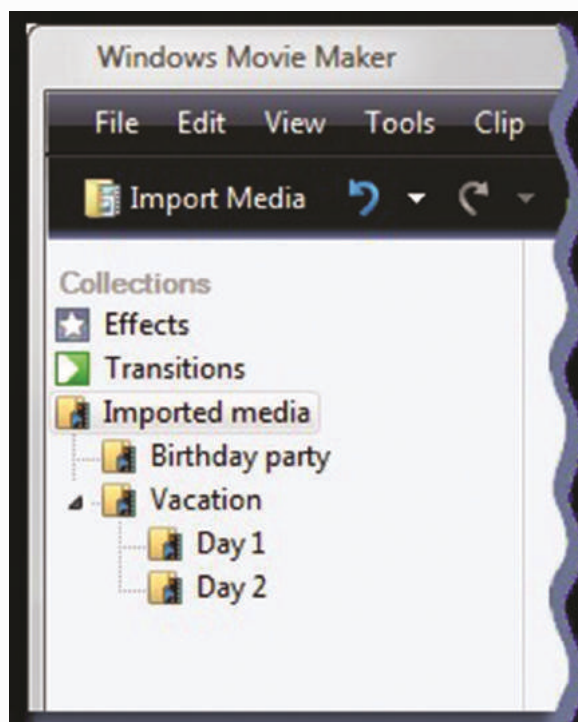


Figure-1.20: Collections Pane

- The Contents pane shows clips, effects, or transitions that are working with while creating our movie, depending on the view being worked with. We can change the view to show thumbnails or details.

We can drag clips, transitions, or effects from the Contents pane or a collection from the Collections pane to the storyboard/timeline for your current project. We can also drag clips to the preview monitor to play them. If you make changes to a clip, those changes are only reflected in the current project; they do not affect the source file.

About the Storyboard and Timeline

The area where the project is created and edited is displayed in two views, the storyboard and the timeline. We can switch between these two views while making a movie.

- **Storyboard.** The storyboard is the default view in Windows Movie Maker. We can use the storyboard to look at the sequence or ordering of the clips in your project and easily rearrange them, if necessary. This view also let us see any video effects or video transitions that have been added. Audio clips that have added to a project are not displayed on the storyboard, but we can see them in the timeline view. The following picture shows the storyboard view in Windows Movie Maker (figure 1.21):

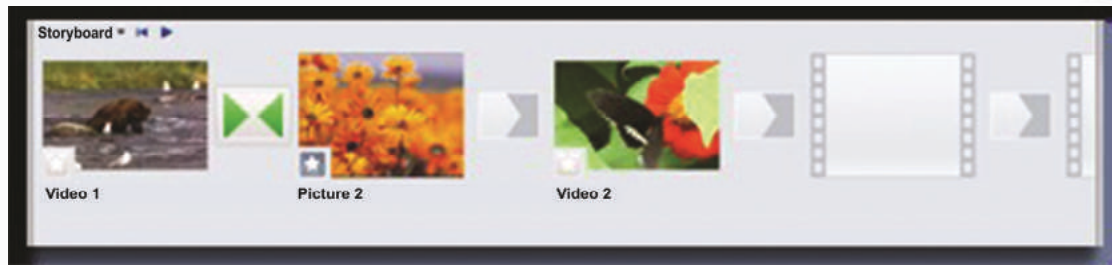


Figure-1.21: Storyboard View

Timeline: The timeline view provides a more detailed view of our movie project and allows us to make finer edits. Using this timeline view, we can:-

- 1) Trim video clips, adjust the duration of transitions between clips, and view the audio track.
- 2) Review or modify the timing of clips in your project. Use the timeline buttons to switch to storyboard view, zoom in or out on details of your project, narrate the timeline, or adjust the audio levels.

The following picture shows the timeline view in Windows Movie Maker i.e. figure 1.22:

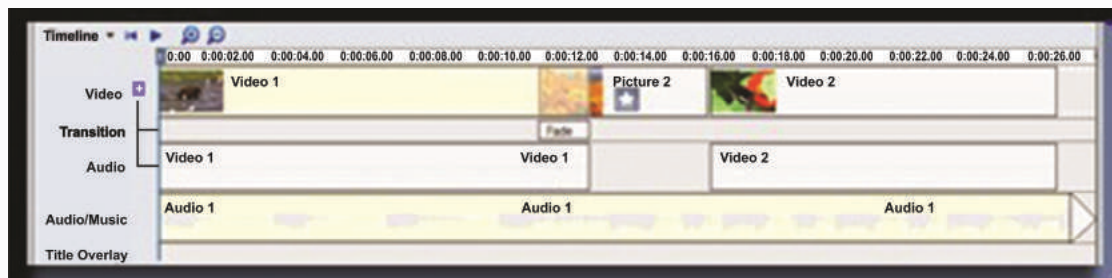


Figure-1.22: Timeline View

About the Preview Monitor

The preview monitor enables us to view individual clips or an entire project. By using the preview monitor, we can preview our project before publishing it as a movie. We can use the buttons underneath the preview monitor to play or pause a clip, or to advance or rewind a clip frame-by-frame. The Split button allows us to split a clip into two parts at the point displayed in the preview monitor.

The preview monitor can be made larger or smaller by clicking View, pointing to Preview Monitor Size, and choosing a size. The window can be dragged to make it larger or smaller.

Assessment:

Answer the following questions:

- Q1. Which is the default view in movie maker?
- Q2. What are the functions of various movie panes of the windows movie maker?



1.3 Importing Pictures, Audio and Video Clips Pictures into Windows Movie Maker

We can import files with the following file name extensions into Windows Movie Maker to use in your project:

- **Video files:** .asf, .avi, .dvr-ms, .m1v, .mp2, .mp2v, .mpe, .mpeg, .mpg, .mpv2, .wm, and wmv
- **Audio files:** .aif, .aifc, .aiff, .asf, .au, .mp2, .mp3, .mpa, .snd, .wav, and .wma
- **Picture files:** .bmp, .dib, .emf, .gif, .jfif, .jpe, .jpeg, .jpg, .png, .tif, .tiff, and .wmf

We can also import files into Windows Movie Maker that have a different extension from the ones listed above, but not all file types will work when you we try to use them to make a movie.

Microsoft Recorded TV Show files (with a .dvr-ms file name extension) that are not protected using digital rights management can be imported into Windows Movie Maker if your computer is running Windows Vista Home Premium or Windows VistaUltimate.

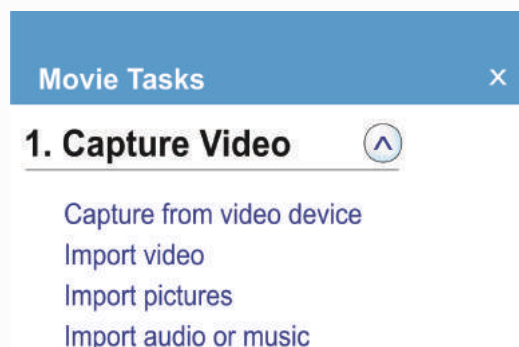
Steps to Import Files into Windows Movie Maker

- 1) Click File, and then click Import Media Items.
- 2) Navigate to the location that contains the digital media files you want to import, and then click Import.

Special Tips

- We can import several video clips at once. For consecutive clips, click the first video clip in the list, press and hold down the SHIFT key, and then click the last clip in the list. For video clips that are not consecutive, press and hold down the CTRL key, and then click each clip that you want to import into Windows Movie Maker.
- We can also import video files and pictures by dragging the files from Windows Photo Gallery into Windows Movie Maker.

Examples: One by one picture representation of steps are mentioned in figure 1.23



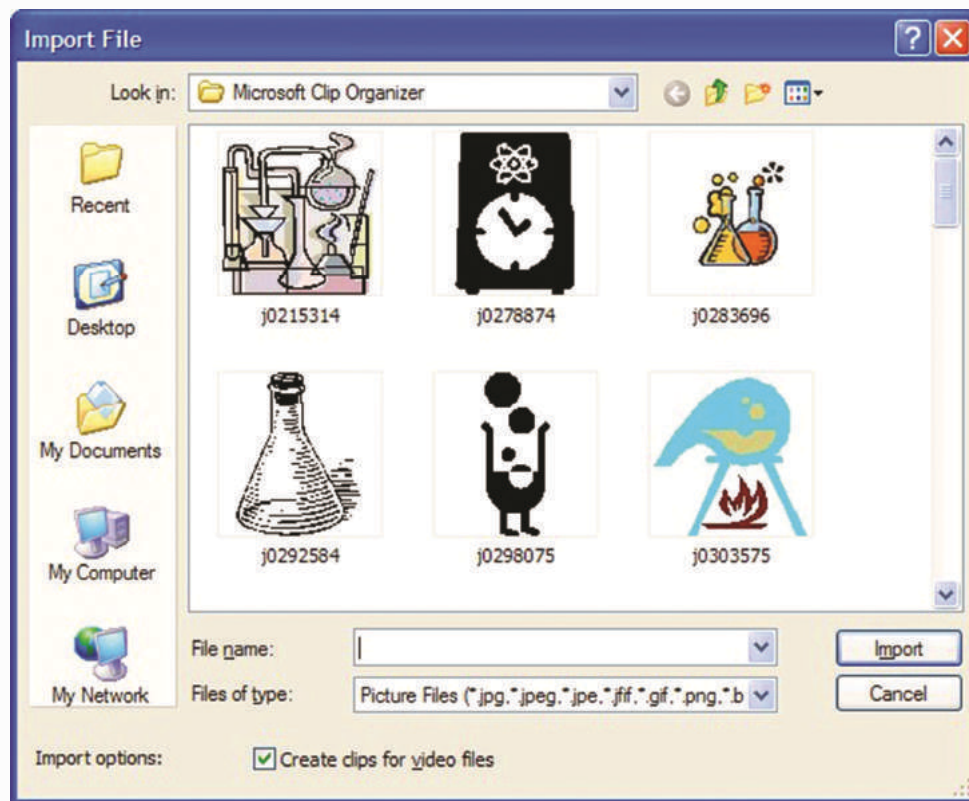


Figure-1.23: Snapshot of Importing Video

Assessment:

Answer the following questions:

- Q1. What does .mp2 and .mp3 stand for?
- Q2. What are the commonly used file extensions for images?
- Q3. Can we import more than one clip at a time?
- Q4. What does .jpeg stand for?

1.4 Splitting, Joining and Trimming Movie Clips

After the files are imported into Windows Movie Maker, we can start the main part of moviemaking - editing. Using Windows Movie Maker, where we can edit clips in a variety of different ways. We can split a long clip into two shorter clips, combine two clips into a single clip, trim the beginning or ending of a clip, and even create new clips.

Split and Combine Clips

We can manually split video and audio clips into smaller clips to make your clips easier to work with.

We can combine contiguous video clips on the storyboard or in the Contents pane (before adding the clip or clips to the storyboard/timeline).



Steps to Split a Clip:

- 1) In the Contents pane or on the storyboard/timeline, click the video or audio clip that need to be split.
- 2) Under the preview monitor, click the Play button.
- 3) When the clip reaches a point near the place you want to split the clip, click Pause.
- 4) Under the preview monitor, use the playback controls to find the point where we want to split the clip.
- 5) Under the preview monitor, click the Split button.

Tip: The playback indicator can be dragged on the seek bar to the exact spot where you want to split the clip.

To Combine Clips

- 1) In the Contents pane or on the storyboard, hold down the CTRL key, and then click the contiguous clips which need to be combined.
- 2) Click Clip, and then click Combine.

The name and property information of the first clip in the group is used for the new clip and the time is adjusted accordingly.

Tip: We can combine more than two clips at a time as long as they are consecutive. To select multiple clips, click the first clip, press and hold down the SHIFT key, and then click the last clip.

Trim (Hide) Parts of a Video Clip

When a clip is to be trimmed, a new start and/or end trim point is made. The start trim point determines when the clip will begin to play, and the end trim point determines when the clip will stop playing in our project and final movie. When we trim a clip, the trimmed part of the clip is not actually removed from the source file; it's just hidden so the trimmed part doesn't appear in our project or published movie as mentioned in figure 1.24.

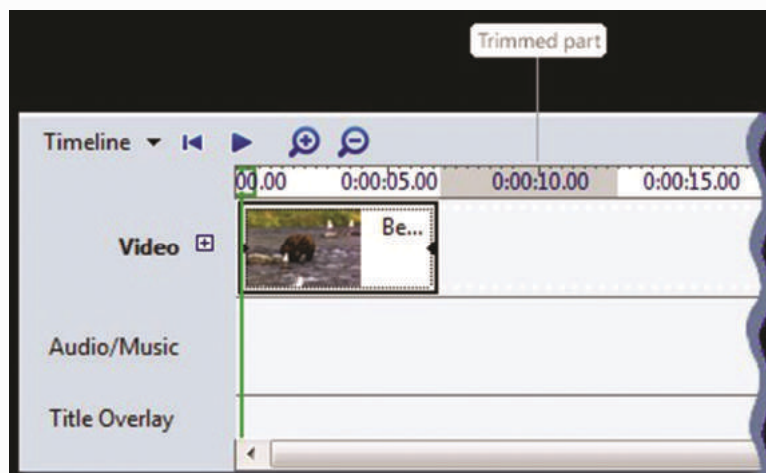


Figure-1.24: A Trimmed Video Clip with the Trimmed Part Highlighted



Steps to trim a video clip

- 1) While in the storyboard view, click View, and then click Timeline.
- 2) On the timeline, click the clip that wished to be trim.
- 3) Use the playback controls under the preview monitor to find the point where you want to trim the clip.
- 4) Do the following:
 - When the playback indicator is at the point where we want the selected video or audio clip to start playing back, click Clip, and then click Trim Beginning.
 - When the playback indicator is at the point where we want the selected video or audio clip to stop playing back, click Clip, and then click Trim End.

Notes:

- We can also drag the trim handles on a clip to set the start and end trim points. Trim handles appear as small black triangles at the beginning and end of a clip after we click the clip on the timeline. When you hold your pointer over a trim handle, the pointer changes to a red double-headed arrow. Drag a trim handle to set the new start or end point of the clip as shown in figure 1.25.

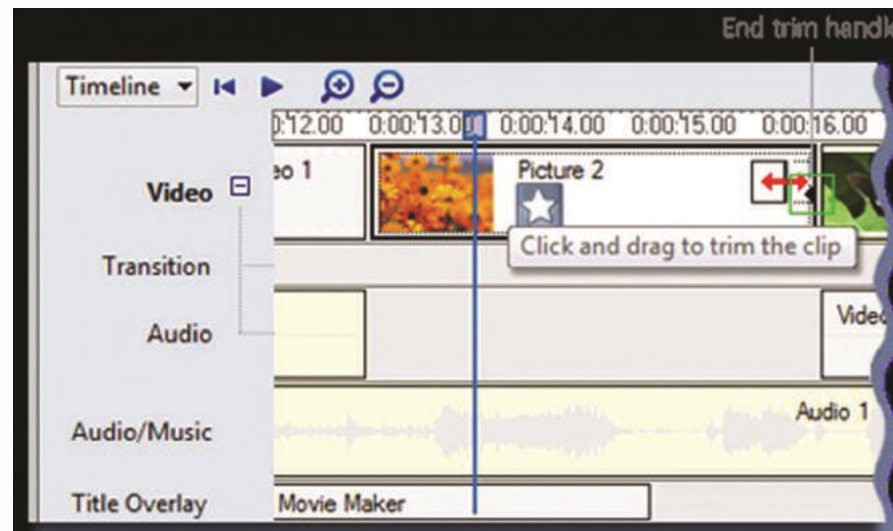


Figure-1.25: Trimming a Clip with the Trim Handle

- The Zoom Timeline In button one is used to see clips more clearly on the timeline. The Zoom Timeline In button appears on the timeline toolbar as a magnifying glass with a plus sign (+) in it.

To Undo a Trimmed Clip

- 1) While being in storyboard view, click View, and then click Timeline.
- 2) Click the trimmed clip on the timeline, click Clip, and then click Clear Trim Points.



Create Clips

We can also create several smaller, more manageable clips from a single existing video clip to make it easier to work with the project. Windows Movie Maker creates clips in different ways, depending on the clip's source. If the source clip is from a digital video (DV) camera, Windows Movie Maker creates clips that are based on the time stamps that the DV camera inserts when the source video is originally recorded, as well as significant frame changes in the video.

- 1) In the Contents pane, select the video clip for which you want to create clips.
- 2) Click Tools, and then click Create Clips.

Note:

Clips can be created automatically for Windows Media Video (WMV) files and Audio-Video Interleaved (AVI) video files that use the DV codec. For other video file formats, clips cannot always be created automatically using clip creation, so the video file appears as one large video clip in Windows Movie Maker. For these large video clips, split the clip manually to separate the large video clip into smaller clips.

Examples:

For example, if we have a video clip that has two different scenes, you might want to split the video clip at the point where the one scene ends and the other begins, and then insert a transition between the two clips in figure 1.26.

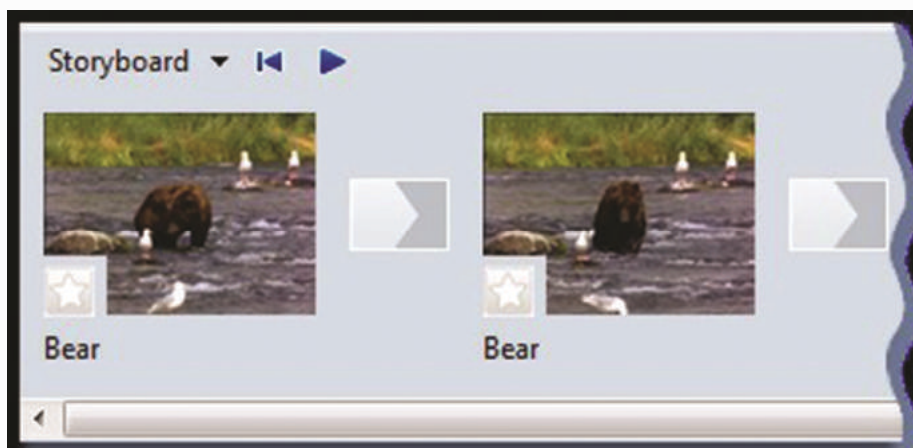


Figure-1.26: A Video Clip that's been Split into Two Clips

Conversely, a file that was divided into smaller clips that can be combined. However, only contiguous clips can be combined. "Contiguous" means that the start time of the second clip immediately follows the end time of the first clip. For example, if we have a video or audio file that was divided into clips when it was imported into Windows Movie Maker, and the clips are named Clip 1, Clip 2, and Clip 3, in that order, we could combine Clip 1 and Clip 2, or Clip 2 and Clip 3, but we cannot combine Clip 1 and Clip 3.



Exercise:

Q.1 Perform trimming on your video clip as follows:

- Click view, and then click timeline (all in storyboard view)
- On the timeline, click the clip that you want to trim
- Use the playback controls under the preview monitor to find the point where you want to trim the clip.
- When the playback indicator is at the point where we want the selected video or Audio clip to start playing back, click clip, and then click trim beginning. When the playback indicator is at the point where we want the selected video or audio clip to stop playing back, click clip, and then click trim end.

Assessment:

Answer the following questions:

- Q1. What are contiguous clips?
- Q2. How is a clip split?
- Q3. What do you mean by trimming a clip?
- Q4. Can you undo the trimming changes?

1.5 Adding Titles in Windows Movie Maker

With Windows Movie Maker, we can add a title, your name, the date, credits, and other text to your movie. For example, you might want to add a title to introduce a person or scene that appears in your movie.

You can add title text to various places in your movie: at the beginning or end, before or after a clip, or overlaying a clip. The title plays for the specified amount of time, either on the screen by itself or overlaying the video as it plays, and then the title disappears and the video clip or picture continues.

The following picture shows in figure 1.27, a project with a title that appears before a video clip:

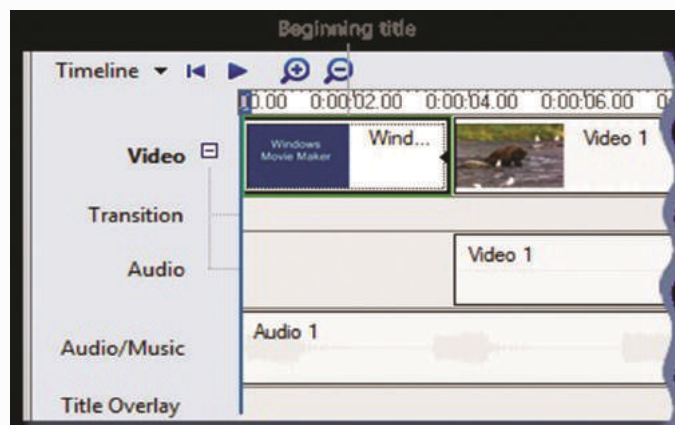


Figure-1.27: Beginning Title on the Timeline



The following picture shows i.e. figure 1.28 a project with a title that overlays a video clip as the clip plays in:

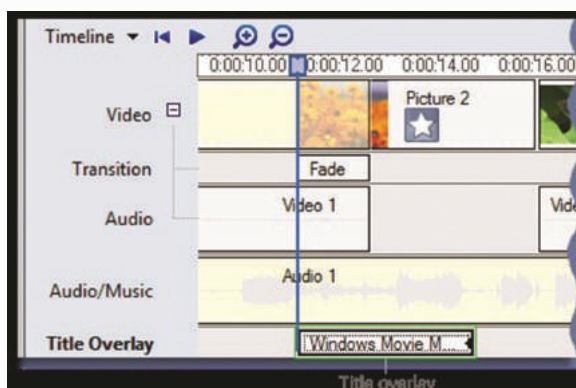


Figure-1.28: Overlay Title on the Timeline

The following picture i.e. figure 1.29 shows a project with credits that appear at the end of the project:

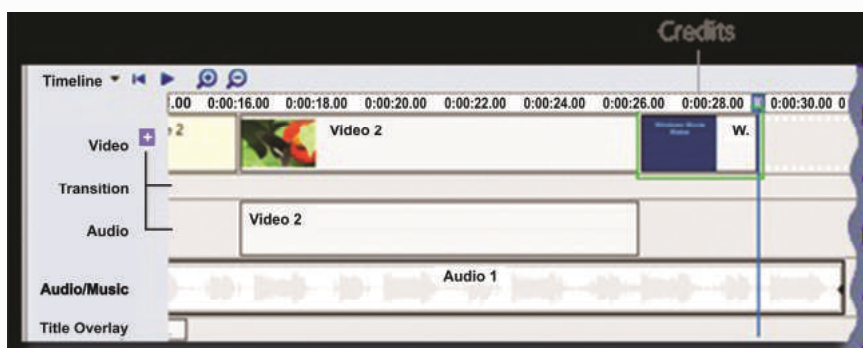


Figure-1.29: Credits on the Timeline

- 1) Click that location on the storyboard/timeline where title or credit is to be inserted.
- 2) Click Tools, and then click Titles and Credits.
- 3) Click the link that corresponds to location where title or credit is to be inserted..
- 4) In the Enter text for title box, type the text that you want to appear as the title or credit.
After you type the text, the monitor displays the default animation and format for the title or credit need to be inserted.
- 5) To change the title animation, click Change the title animation, and select a title animation from the list.
- 6) To change the font and color for your title, click Change the text font and color, and then choose the font, font color, formatting, background color, transparency, font size, and position of the title to your liking.
- 7) Click Add Title.



Steps to Edit an Existing Title

- 1) On the storyboard/timeline, click the title need to be edited.
- 2) Click Edit, and then click Edit Title.
- 3) Make the changes, and then click Add Title.

Steps to Change the Title Duration

- 1) To make sure that you are in timeline view, click the View menu, and then click Timeline.
- 2) Select the title whose duration you want to change.
- 3) Do the following:
 - To extend the playback duration of the title, drag the end trim handle toward the end of the timeline.
 - To reduce the playback duration of the title, drag the end trim handle toward the beginning of the timeline.

Steps to Remove a Title

- 1) On the storyboard/timeline, click the title that need to be removed.
- 2) Click Edit, and then click Remove.

Note: Trim handles appear as black triangles at the beginning and end of a clip. The pointer changes to a red double-headed arrow when we hold it over a trim handle.

Examples: Once you click a button for the type of title you want you will be brought to a screen to add your text. Figure 1.30(a) represented a snapshot of screen appear enter text for title and figure 1.30(b) represented a snapshot of screen where we have to enter text for title

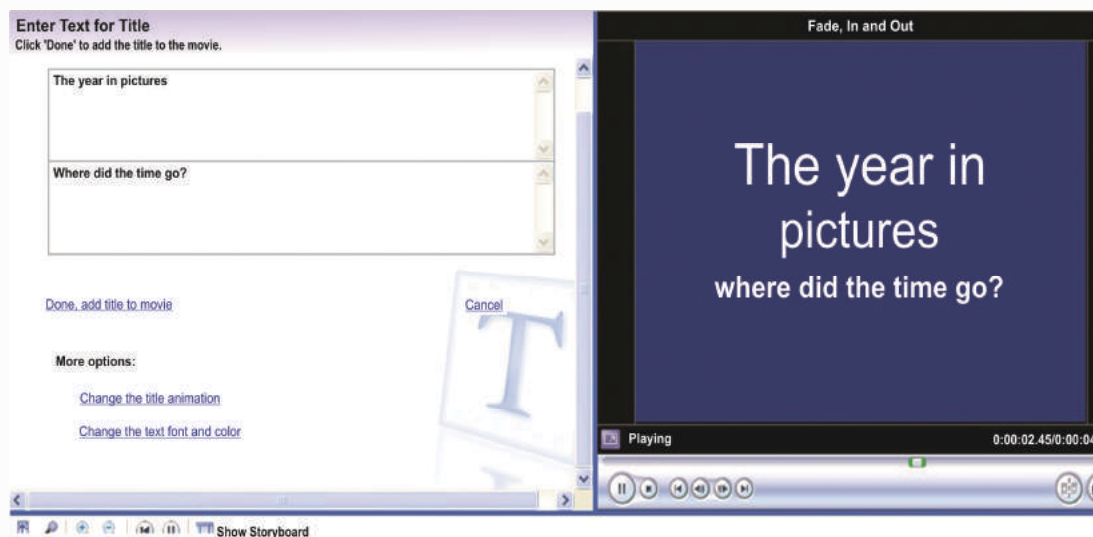


Figure-1.30(a): Snapshot of Screen Appear Enter Text for Title



Enter Text for Title
Click 'Done' to add the title to the movie.

[Done, add title to movie](#) [Cancel](#)

More options:

[Change the title animation](#)

[Change the text font and color](#)

Figure-1.30(b): Snapshot of Screen we Enter Text for Title

As you add the text you will have the opportunity to preview your titles in the preview screen. If you want to make a change to the way the title animation looks you can click on Change the title animation link under more options. Under more options is also where you can Change the text font and color.

Exercise:

Q1. Edit the existing title as follows:

- On the timeline, click the title that needs to be edited.
- Click Edit, and then click Edit Title.
- Make the changes, and then click Add Title.

Assessment:

Answer the following questions:

- Q1. Explain the Steps needed to Change the Title Duration of your video.
- Q2. How can you burn your movie into a CD?
- Q3. How will you save your movie, once compiled?
- Q4. How can the title be removed from the video?

1.6 Publishing Movie in Windows Movie Maker

After finishing working on a project, we can publish the project as a movie. A movie is a Windows Media file with a .wmv file name extension or an Audio-Video Interleaved (AVI) file with an .avi file name extension. This published movie in Windows Movie Maker can also be shared with others in a number of ways - through our computer, on a recordable CD, on a recordable DVD, as an attachment in an e-mail message, or on videotape in a DV camera.



Steps to Publish a Movie to your Computer

- 1) Click File, click Publish Movie.
- 2) Click This computer, and then click Next.
- 3) In the File name box, type a name for your movie.
- 4) In the Publish to box, choose where ever want to save the movie once it's published, and then click Next.
- 5) Choose the settings to be used to publish the movie, and then click Publish.
- 6) To watch the movie after it has been published, select the Play movie after clicking Finish check box.
- 7) Click Finish.

Steps to Publish and Burn a Movie to DVD

To publish and burn a movie to a DVD, you must have Windows DVD Maker, which is included in Windows Vista Ultimate and Windows Vista Home Premium. You also need a DVD burner.

- 1) Insert a blank recordable or rewritable DVD into your DVD burner.
- 2) Open a project in Windows Movie Maker.
- 3) Click File, and then click Publish Movie.
- 4) Click DVD, and then click Next. Windows DVD Maker opens.
- 5) Complete the steps to create a DVD using Windows DVD Maker.

Steps to Publish and Burn a Movie to a Recordable CD

- 1) Insert a blank recordable CD or a rewriteable CD into your CD burner.
- 2) Click File, and then click Publish Movie.
- 3) Click Recordable CD, and then click Next.
- 4) In the File name box, type a name for your movie.
- 5) In the CD Name box, type a name for the CD, and then click Next.
- 6) Choose the settings to be used to publish the movie, and then click Publish.
- 7) To publish and burn the movie to another recordable CD, select the Publish this movie to another recordable CD check box, and then click Next. Replace the recordable CD with another recordable CD, and then repeat steps 4 through 6.

Steps to Send a Movie as an E-mail Attachment in an E-mail Message

- 1) Click File, and then click Publish Movie.
- 2) Click E-mail, and then click Next.



- 3) After the movie is published, do any of the following:
 - To play the movie in the default player before sending it, click Play the movie.
 - To save a local copy of the movie on your computer in addition to sending it as an e-mail attachment, click Save a copy of my movie on my computer, enter a movie file name in the File name box, and then click Save.
- 4) To attach the movie to an e-mail message, click Attach Movie.
- 5) In the default e-mail program, enter the e-mail address of the person to which movie need to be send, add any additional text to the body, and then send the message.

Steps to Record a Movie to a Videotape in a Digital Video Camera

- 1) Switch your digital video (DV) camera on and verify that it is in playback mode (often labeled VCR on the camera).
- 2) Click File, and then click Publish Movie
- 3) Click Digital video camera, and then click Next.
- 4) If more than one digital video device powered on and detected by Windows Movie Maker, on the Choose a digital video camera page, choose the digital video device that contains the videotape to which the movie is recorded, and then click Next.
- 5) When we see the Cue your tape page, using the transport controls on our camera, rewind or fast-forward the tape to the point where the movie is to be recorded, and then click Next.
 - Warning: There should not be any overwriting a portion of the tape that contains recorded video.
- 6) To begin recording the movie back to tape, click Yes.

Wait for the movie to be published and then recorded to the videotape. The time it takes to create and record the movie to tape depends on the length of the movie and the system resources on your computer. You can preview the movie in the LCD display of your DV camera as your movie is recorded to tape.
- 7) Click **Finish**.

Steps to Change Where Movies are Temporarily Saved

Windows Movie Maker uses a temporary file storage location in the following ways:

- When we publish a movie, the audio or movie file is held in the temporary file location until the file is published.
- When we record an audio narration, a temporary file is stored in the temporary file storage location, and then removed after the audio file is saved.
- When we publish a movie that you want to attach to an e-mail message, a copy of the movie file is stored in the temporary file location until the movie is sent successfully.



- When we send a movie to a tape in a digital video (DV) camera, the temporary movie file that is created is stored in this location until the movie is recorded to the tape.

We can change the default file storage location in Windows Movie Maker. For example, if we have a storage location that has more available disk space. If our hard disk has two partitions, we want to choose the drive that has more storage space.

- 1) Click Tools, and then click Options.
- 2) Click the General tab, and then in the Temporary storage box, choose the default location where temporary audio and movie files are to be saved temporarily.

Steps to Avoid Including the Title, Author, Copyright, Rating, and Comments Information in the Published Movie File

Always remember not to include information such as the title, author, copyright, rating, and comments in your published movie files so that our name and other metadata information is not displayed when someone else plays back our movie in a media player.

To choose not to include metadata in your finished movie, do the following:

- 1) Click Tools, and then click Options.
- 2) Click the General tab, and then select or clear the Do not include the title, author, copyright, rating, and comments information in the published movie file check box, depending on whether we want personally identifiable information to be removed with the published movie file.

Examples:

Movie Maker has created a series of wizards to help you save your movie in a way to share it with other people. In figure 1.31 shows the content of finish movies.



Figure-1.31: Content of Finish Movie

Simply click on the type of movie you want to save your project as, and this will start the wizard. For this example we will use the Save to my computer wizard. Note: Depending on the length of your movie this process can take a long time. So make sure you have something to do for a while.

Step 1: The first step is to give the movie a name, and tell the wizard where you would like to save the movie as represented in figure 1.32. Now go ahead and click Next.



The screenshot shows the 'Save Movie Wizard' dialog box with the title bar 'Save Movie Wizard' and a close button. The main area is titled 'Saved Movie File' with a subtitle 'Enter information for your saved movie file.' and a film reel icon. It contains two steps: 1. 'Enter a file name for your saved movie.' with a text box containing 'Physics Vidcast 1'. 2. 'Choose a place to save your movie.' with a dropdown menu showing 'C:\Documents and Settings\cmjae\Desktop' and a 'Browse...' button. At the bottom are '< Back', 'Next >', and 'Cancel' buttons.

Figure-1.32: Snapshot of Movie Wizard

Step 2: The second step is to determine how the output of the movie will be shown in figure 1.33. The safest way to export your movie is to choose Best quality for playback on my computer (recommended).

The screenshot shows the 'Save Movie Wizard' dialog box with the title bar 'Save Movie Wizard' and a close button. The main area is titled 'Movie Setting' with a subtitle 'Select the setting you want to use to save your movie. The setting you select determines the quality and file size of your saved movie.' and a film reel icon. It contains three radio button options: 'Best quality for playback on my computer (recommended)', 'Best fit to file size:' (with a value of 327 KB), and 'Other settings:' (with a dropdown menu showing 'DV-AVI (PAL)'). There is a link 'Show fewer choices...'. At the bottom are '< Back', 'Next >', and 'Cancel' buttons. Below the radio buttons are two sections: 'Setting details' and 'Movie file size'. 'Setting details' lists: File type: Audio-Video Interleaved (AVI), Bit rate: 30.0 Mbps, Display size: 720 x 576 pixels, Aspect ratio: 4:3, and Frames per second: 25. 'Movie file size' lists: Estimated space required: 11.25 MB and Estimated disk space available on drive C: 79.24 GB.

Figure-1.33: Second Step of Movie Wizard



Now go ahead and click Next. This will start the creation of your movie.

Step 3: The next window will show the progress of the movie being exported as represented in figure 1.34.

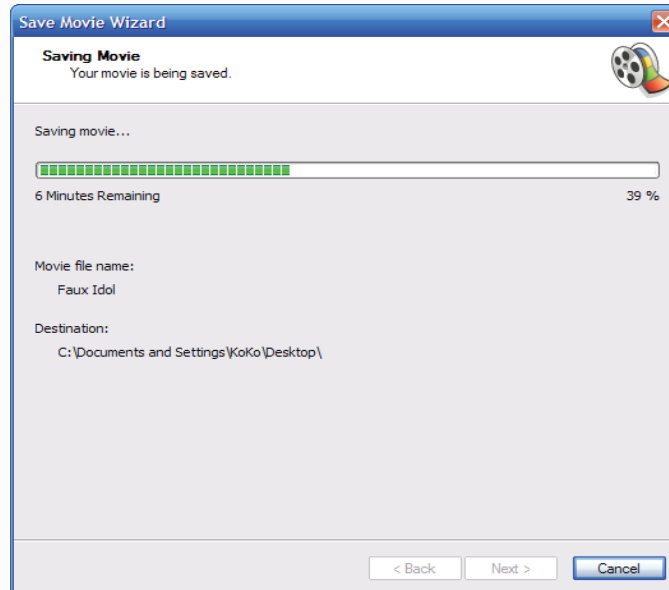


Figure-1.34: Third Step of Movie Wizard 34

Step 4: When Movie Maker is done exporting the film the finish screen will be seen like this as shown in figure 1.35.

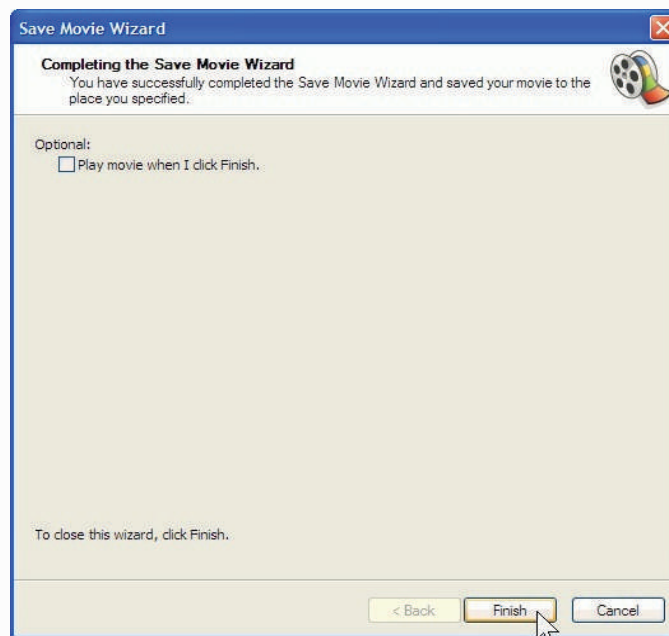


Figure-1.35: Snapshot of Fourth Step of Movie Wizard

At the end open up the file, and watch the epic film.



Exercise:

Q1. Publish your movie to your computer by following the steps listed below:

- Click file
- Click publish movie.
- Click this computer, and then click next.
- In the file name box, type a name for your movie.
- In the publish to box, choose where ever want to save the movie once it's published, and then click next.
- Choose the settings to be used to publish the movie
- Click on publish.

Assessment:

Answer the following questions:

- Q1. Explain the various Steps to save and publish the video generated.
- Q2. Explain the information which the Published movie should not contain.
- Q3. Can you avoid adding the credits to your video?
- Q4. Is there any difference between saving and publishing?