

# Computer Magics For Preparatory 2



First Term

# Web Sites & Its Designing Stages

**Web Site :** It is one web page or more linked together under a certain name , it has a web address in the internet , we can visit it through computer .

**Web Page :** It is an electronic file publish in the internet and we can show it through browser .

**Home Page :** It is the main page of a web site that we can through it navigate the web site using the browser .

## Elements of the web page :

- 1- Texts
- 2- Images
- 3- Videos
- 4- Hyperlink



## Static Web Pages :

A page prepared by the page designer to introduce information for the visitors without the ability to edit any of its information from the users , It use HTML commands for its design .

## Dynamic or Interactive web pages :

Page to deal or interact with users and ask them to enter a require data to get the information that they want , It use HTML and java script for its design .

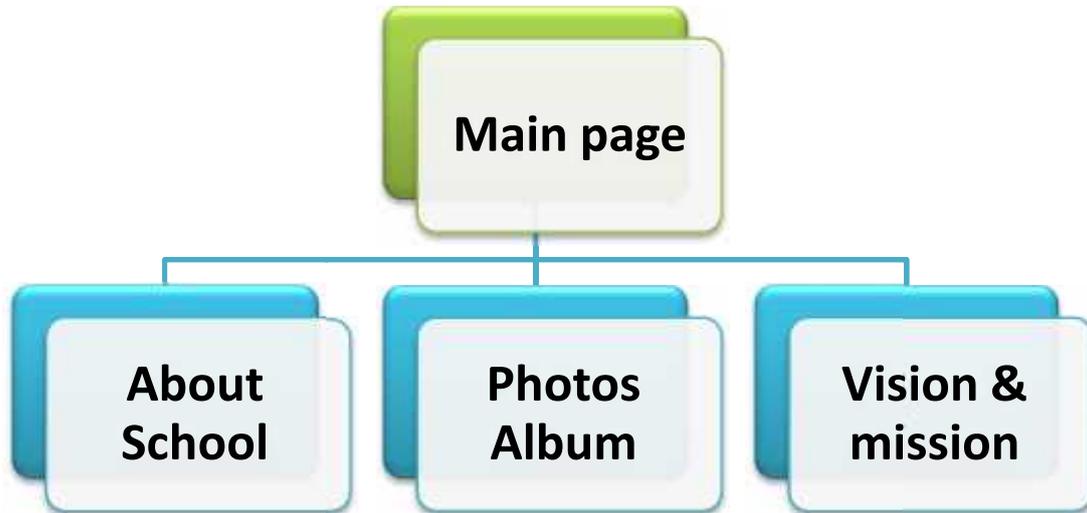
## Creation & designing web page stages :

- 1- A plan for web page shape .
- 2- Design pages for the web site .
- 3- Prepare the web pages .
- 4- Run the Web pages .
- 5- Publish the site on the internet .



## Stage 1 : Planing the web site

- ✚ In this we make a simple sketch graph on the paper include web pages (Main page and web pages that connected with it ) .
- ✚ Select data and information that we want to put it in the web pages as a service introduced through the site .



## Stage 2 : Designing web pages

- ✚ In this stage we design a shape for the main page and web pages .
- ✚ Select setups for the web pages as background color , font( size , color , type) , places where we want to put( texts , images , videos) .
- ✚ Select hyperlink inside the main page and other web pages .

## Stage 3 : Preparing

**This stage include many important steps**

- ✚ Through word program we can setup the texts and save it as a file inside a certain folder to use it inside the web pages .
- ✚ Prepare sounds and videos files and put it inside the same folder .

## Stage 4 : Designing

- ✚ The stage that we convert the paper sketch into a web page design that we can show it through one of the browser programs .
- ✚ Add data (Texts , Sounds , Videos ,.....) to the web pages .
- ✚ Create a hyperlink between web pages to enable us to move between the web pages and all this we can do using HTML commands .

## Stage 5 : Publish the site on the internet

In this stage we reserve web address on one of the server devices to publish our web site on the internet .



## Work Sheet

### Define :

1- Web Site :

.....

2- Web Page:

.....

3- Main Page:

.....

4- Static web page:

.....

5- Dynamic web page:

.....

## Complete :

- 1- The elements of the web page are ....., ....., ....., .....
- 2- There are two types of web pages ....., .....
- 3- ..... It is an electronic file publish in the internet and we can show it through browser .
- 4- ..... It is one web page or more linked together under a certain name , it has a web address in the internet , we can visit it through computer .

## Re-Arrange :

- ( ) Design pages for the web site .
- ( ) Publish the site on the internet .
- ( ) Prepare the web pages .
- ( ) A plan for web page shape .

# Creating & Processing Sound Files

There are a lot of programs that deal with sound files & enable user to create & process sound files using tools .

## Create Sound File :

We can create sound file contain sound clips that we need and add on it different effects , then save the sound inside a file by using one of the processing sound programs .

## Stage 1 : Preparing

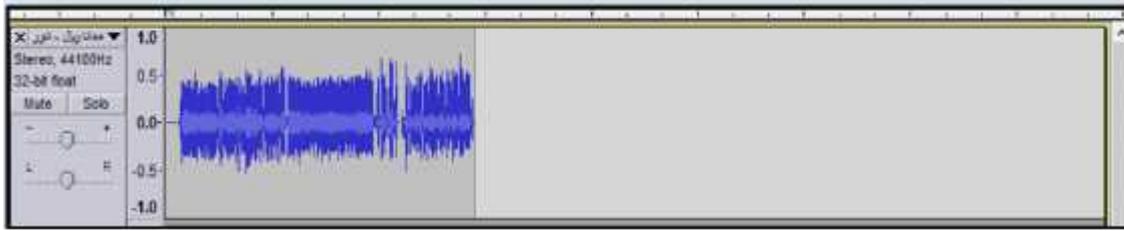
- Collect data that we will use it by recording it .
- Make sure that the programe is installed on your computer .
- Make sure that Mic & Speaker are connected to your computer .

## Stage 2 : Execution

Use Audacity program that is one of the open source program & can run on (windows & Linux) to create & process sound file



- To start recording  press on Record button & record the data that we collect using MIC



-To end recording press Stop button .

-To listen to the sound that you record press Play button .

### Stage 3 : Editing

After listening to the sound that we record may be we need to add effects on it or delete or cut any part of the sound clip and paste it in other place in the sound clip .

#### To add effect on sound clip

Select sound clip that you want to add effect on it .



From Effect menu choose one of the effects that required.

Then replay the sound and listen to it after adding the effect .

#### To cut and paste sound clip

- Select the sound clip that you want to move and from the edit menu, select cut , then paste it on the required place using edit menu , then select Paste .



### **To delete a part from sound clip**

Select the part of sound that we want to delete , then click delete button on the keyboard .

### **Stage 4 : Export sound file**

- From file menu , select export audio .
- Choose suitable extension .
- Save sound file inside a folder .

### **Extension Types :**

There are different types of sound files extensions such as MP3, WAV,...

They different in sound quality and its storage space .

We choose the suitable extension according to our needs .

### **Note**

Sound file that has an extension (.WAV) is more clear and high quality , but its storage space is high so it isn't suitable for publishing on the internet .

Sound file that has an extension (.MP3) is low quality than WAV file but mp3 file has less storage space so it is suitable for publishing on the internet .

# Work Sheet

## Complete :

1- Stages of creating sound file are :

- (a).....
- (b) .....
- (c).....
- (d) .....

2- From sound extensions types ....., .....

3- Extensions different in its ..... &.....

4- ..... is one of the open source processing programs that used to edit sound fil

## Put ( ) or (×) :

- 1- Mp3 extension is more clearance than WAV extension. ( )
- 2- We use Mp3 extension to publish sound file on the internet. ( )
- 3- Audacity program is closed source program. ( )
- 4- We can't make any processing such as (cut-delete-copy-....) on any sound file. ( )

# Creating & Processing Video Files

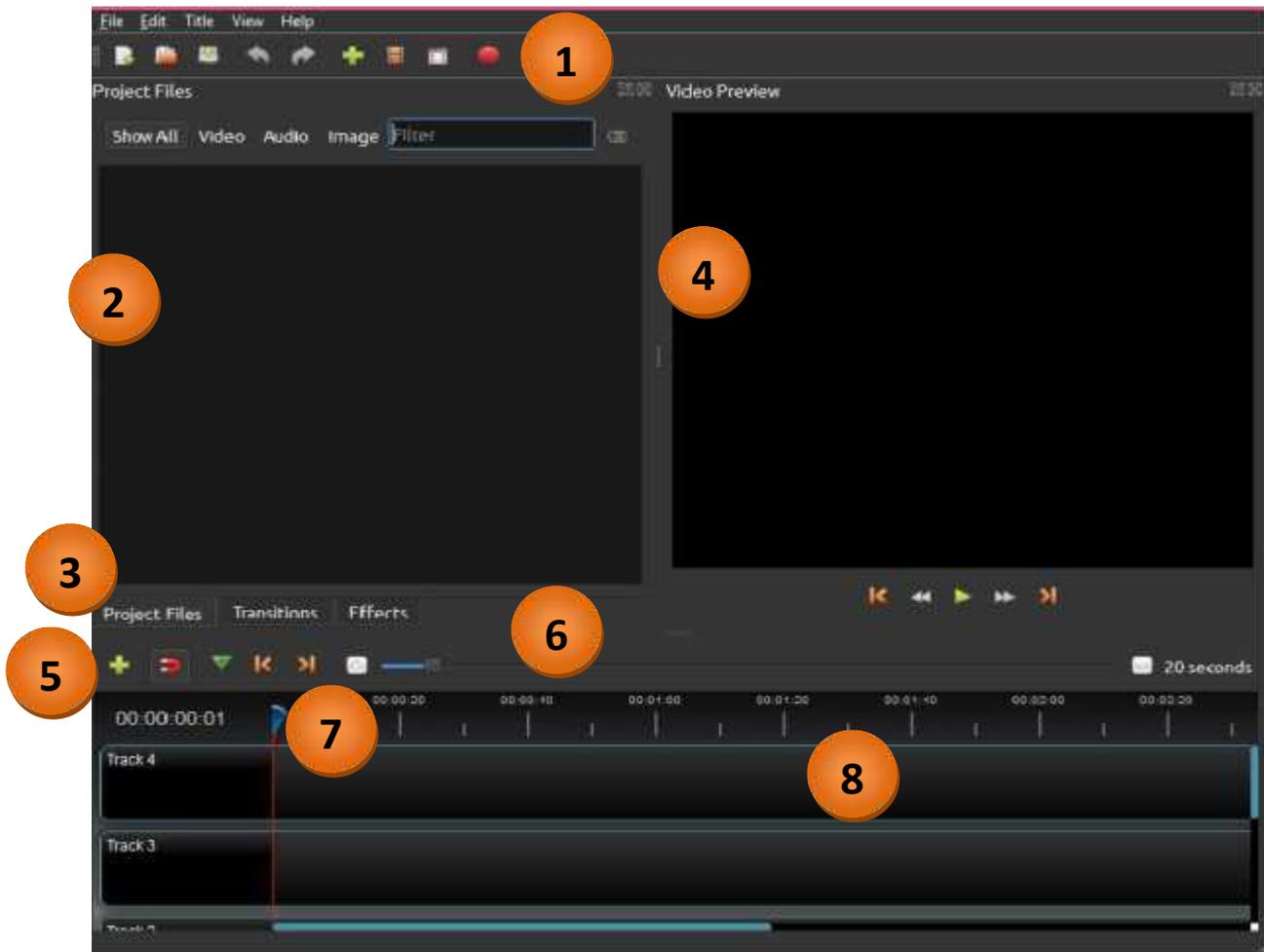
Creating and processing video programs is the programs that enable users to create and edit video files easily and quickly using many tools and effects that help them.

To create one of the video files that contain a group of photos or to process video scenes that we recorded before through video camera or web camera , we must use program that enable us to cut this video into many shots.

When we put this shots after each others squently and move it quickly , we can see our video and we can edit or process this shots using open shot program that is open source , it run through windows & linux .

**Open shot video editor** is a program used to create a processed video that enable users to produce video files with high quality from some images, backgrounds, texts and sound clips then adding effects to it .

This program has an easy GUI .



- 1-** Main Toolbar.
- 2-** Project Files.
- 3-** Function Tab (To move between project files – Image files – Sound files).
- 4-** Preview windows.
- 5-** Edit Toolbar.
- 6-** Zoom Slider.
- 7-** Play Ruler.
- 8-** Timeline.

## Program Time Line :



- 1- Ruler
- 2- Play head (Read playing clip in the time line to appear in the preview window)
- 3- Playing clip that may be Image, Sound or video shot
- 4- Tracks (It is as layers where we put image, sound or video shot on the track & we can use unlimited tracks in our project & we should notice that upper track read first and so on .

## Create Video Clips :

- 1- Import images files inside the program
- 2- Arrange images on the time line of the program
- 3- Import sound file inside the program
- 4- Preview the video

## To import image file :

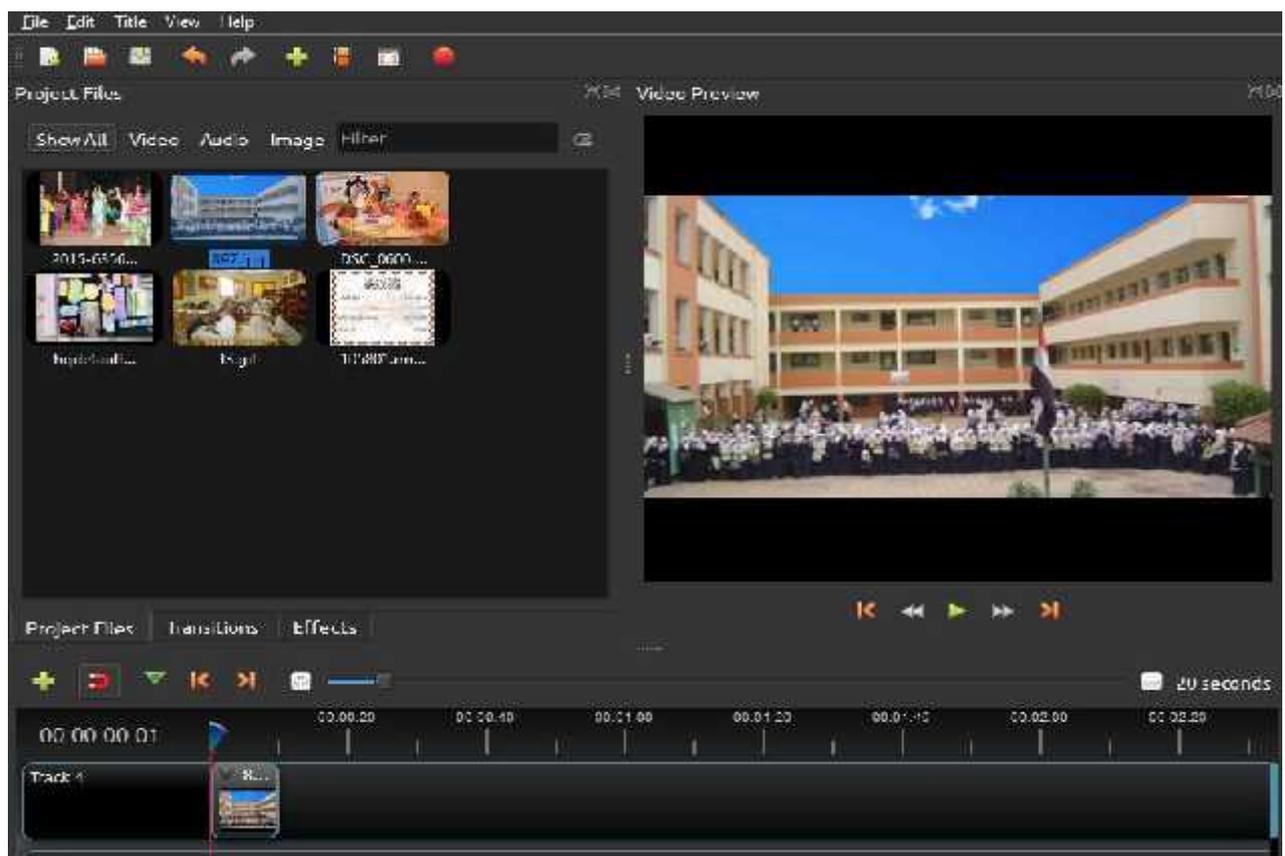
Click on + button on the main toolbar, then add the image or from file menu select import files, then it will appear in the project file.



## Arrange images in the time line :

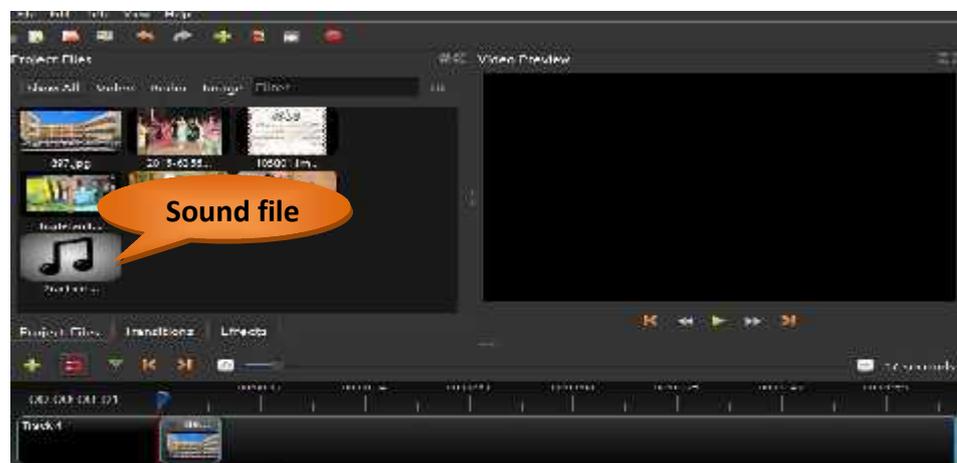
To make a video clip , we put the image on the time line & arrange it by drag & drop images that we save in project files, then put each image on its special track and arrange it according to what we want to appear first.

When we put all images we will find that our video clip appears in the preview window.

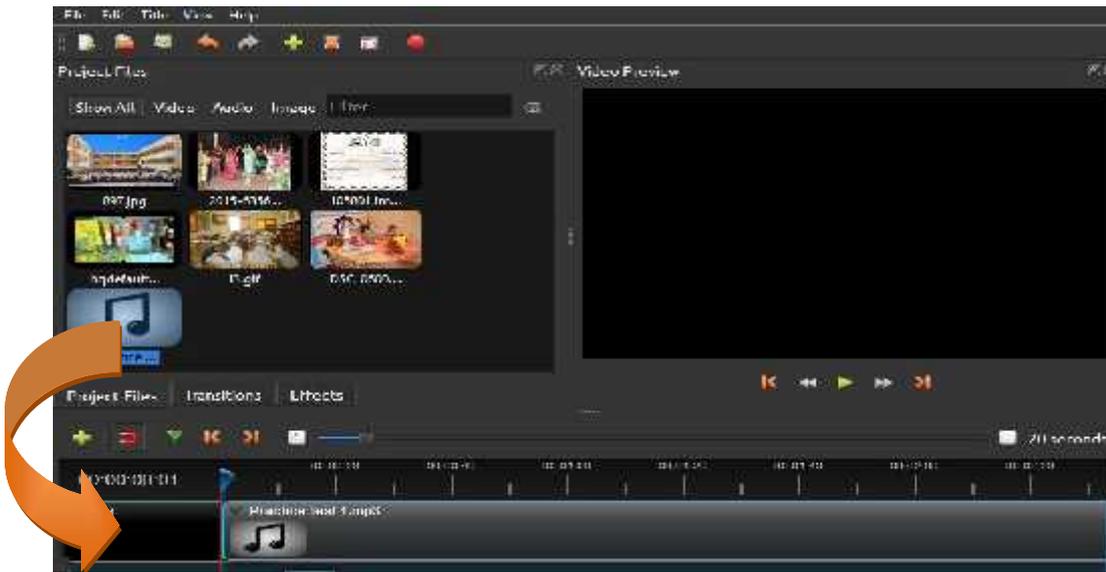


## To import sound file :

From main toolbar, click on add menu + & select the sound file from project files.



Then drag & drop sound file to put it on the track then play your video.



So

To create a video file :

- 1- Import files (images & videos)
- 2- Arrange clips (images & sounds) on the time line
- 3- Preview the video

### Notes

- 1- You can add track by clicking on a button + on the Edit toolbar
- 2- We can re arrange video clips by (drag & drop) and arrange them according to first appear.
- 3- Select the starting of sound file by putting it in its position on the time line.

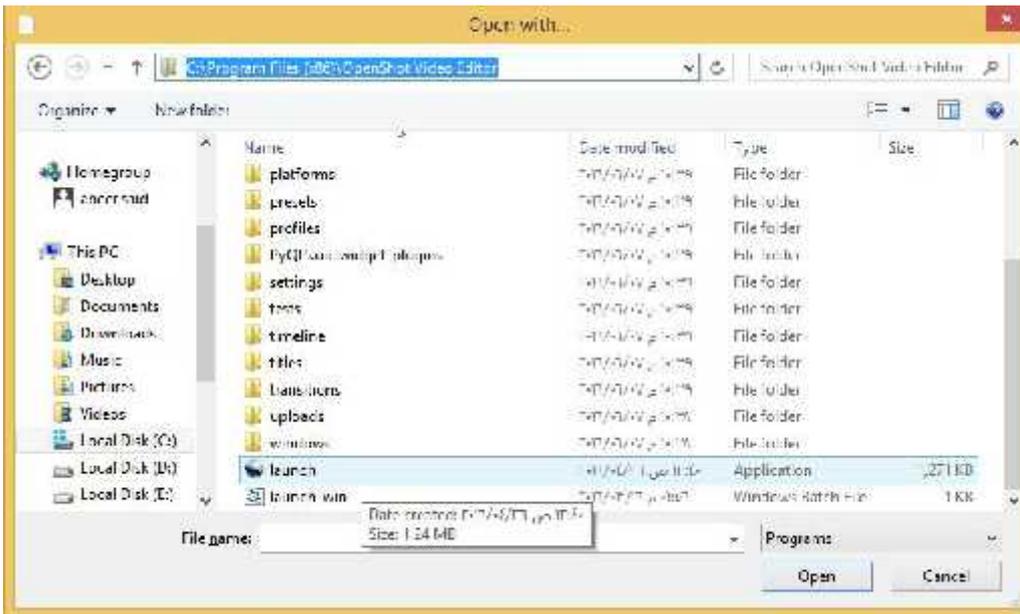
### Save project :

When we make a video clip we use images, texts, sound clips & effects so we should save them all in one folder to enable us to return any time to our video to edit or delete or cut.

From main toolbar select file then select Save Project As

# Notes

When we save our project in open shot that is installed in windows we will find that the saved program is undefined so right click on the file, choose properties, change, more options, then select look for another app on this PC, then select association



You will find that the file become

## Editing video clips:



After preview your video you may find that time line for the sound is longer than time line of the images.



Image time line

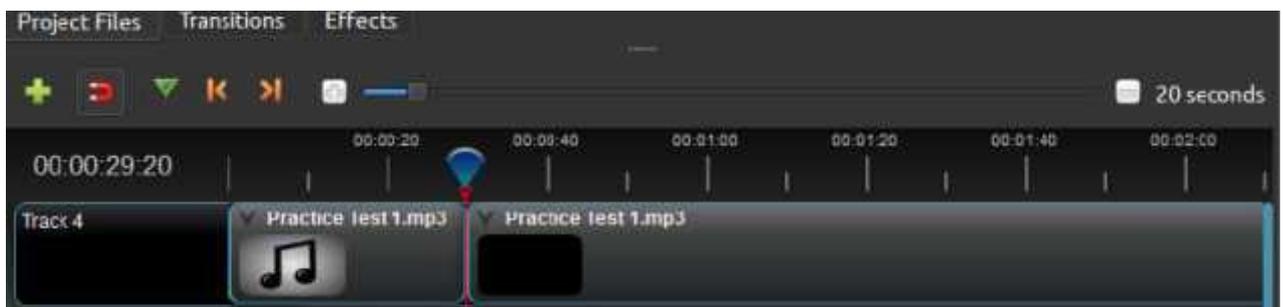
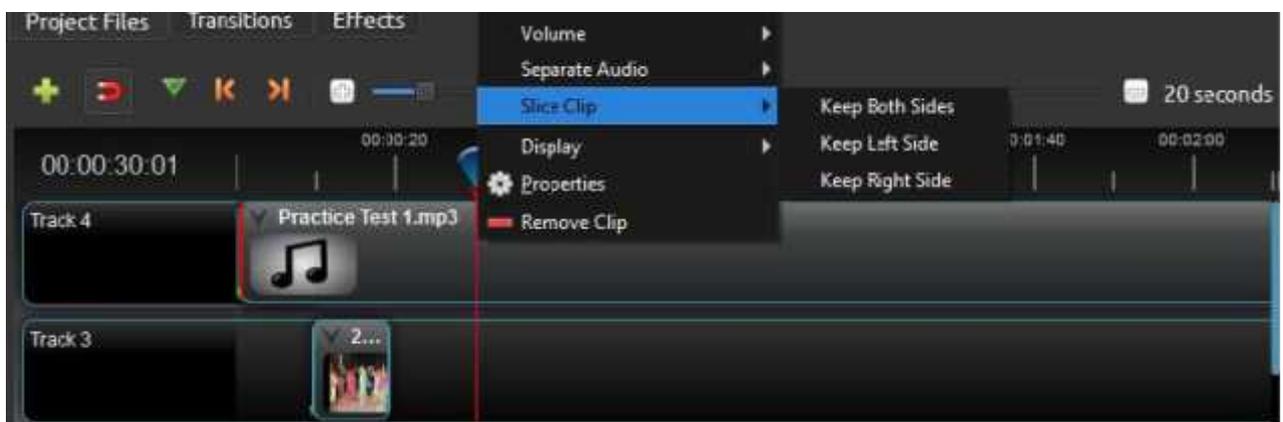
Sound time line

So we can control and reduce the time line of sound to the end with the time line of image using play head pointer.

Move the pointer by drag & drop until it reach to the place where the image time line end.

Stop your mouse on the sound track, then press right click and select slice clip, then keep left slide.

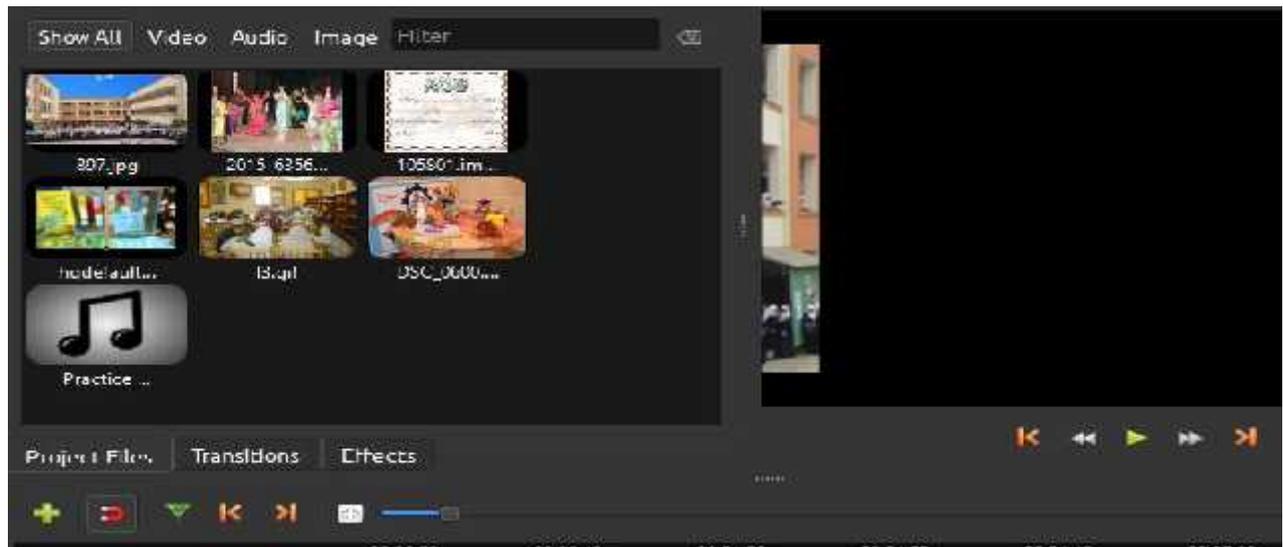
We will find that the video clip cuts into two slices (left slice & right slice).



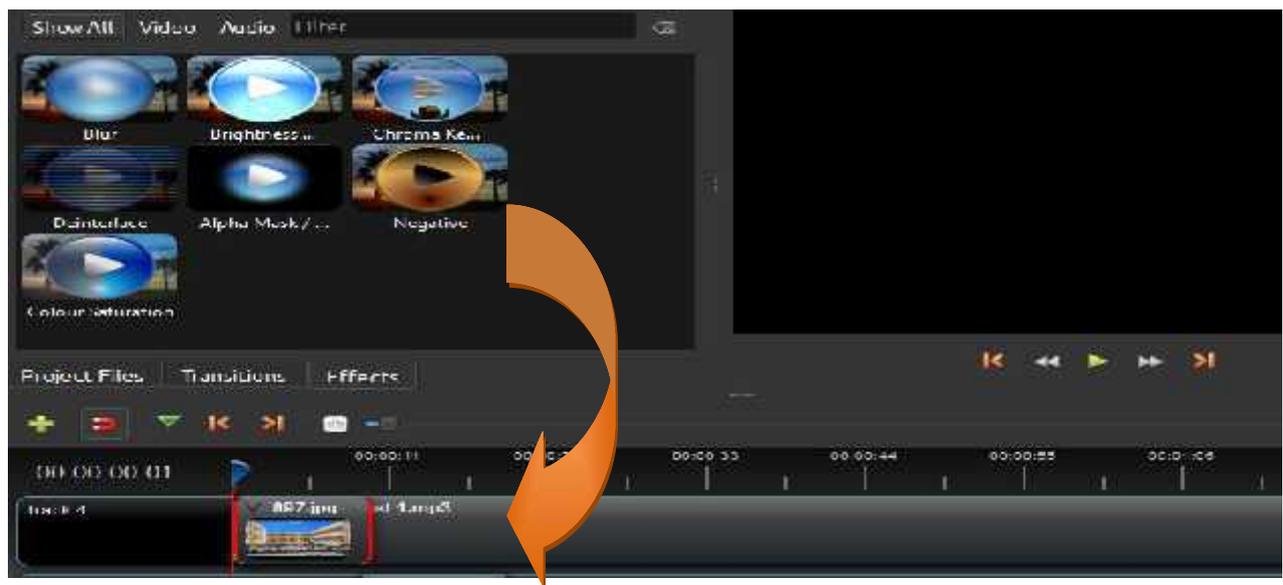
When we select keep left slide the right slice will delete and verse versa.



## Add effects to video clip :



It will appear many effects



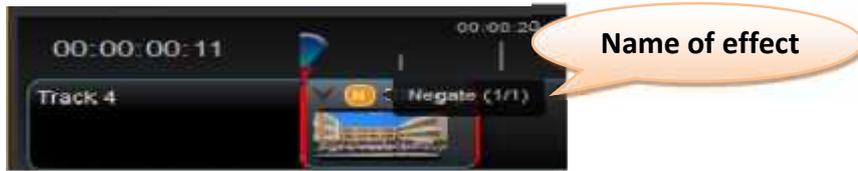
Drag and drop the effect to the video clip, then preview the video to see the effect.

### Notes

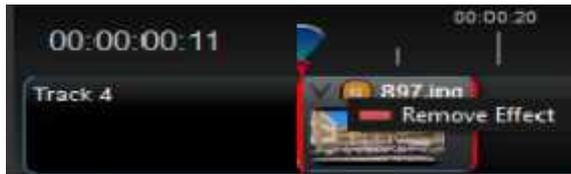
We can know the effect symbol that we put on the video clip



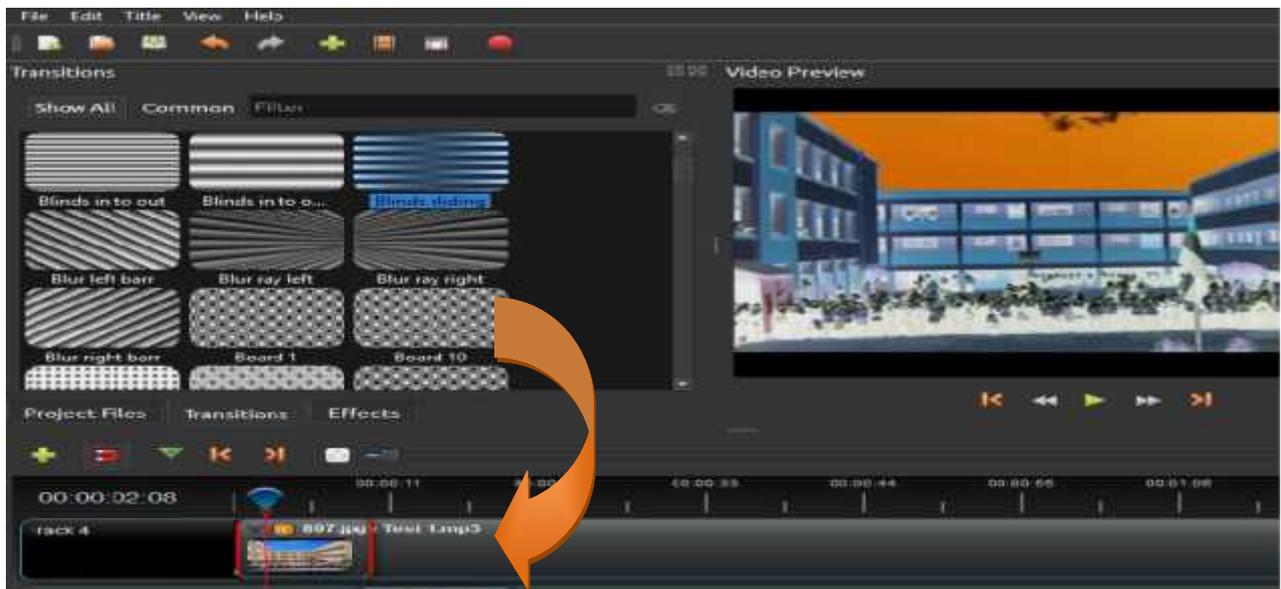
We can know also the name of the effect that we use.



To remove the effect, right click and select remove effect.



### Add transition to the video clips:



Drag & drop the transition to the video clip and see the effect

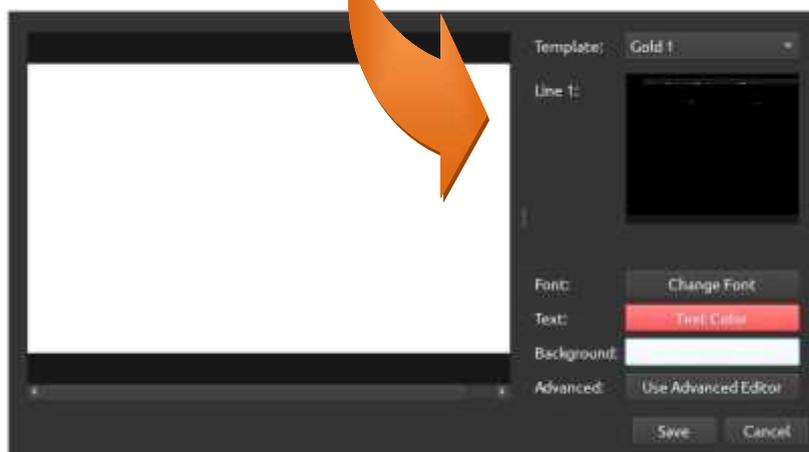
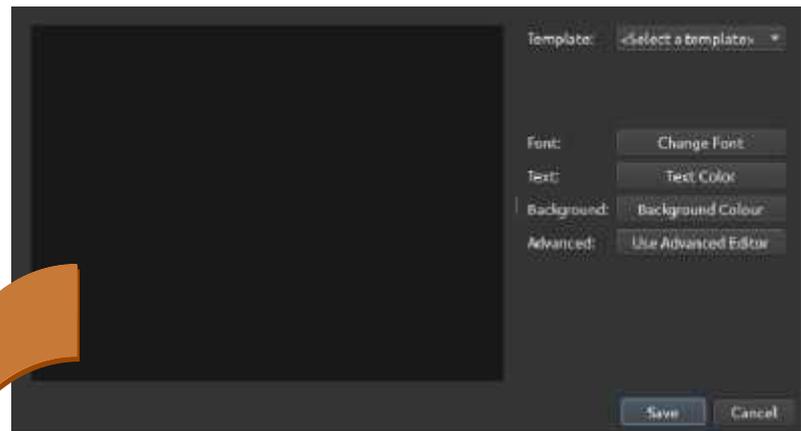
put transition at start or at end of the clip.

Control the time line of the transition show by click and move to increase or decrease it.

### Add Text to the video:

- Select texts that you want to add it to the video
- Select places that you want to add text to (At start of the video – between video shots – At the end of the video).
- From title menu, select title.

- 1- select a template
- 2- Change font
- 3- Change text color
- 4- Change background color
- 5- Save the text in a file



We can add text at the start of the video or at the end of the video.

Add a track to put the text on it

Re-arrange video clips (text – image – sound) on tracks according to what we want to appear first.

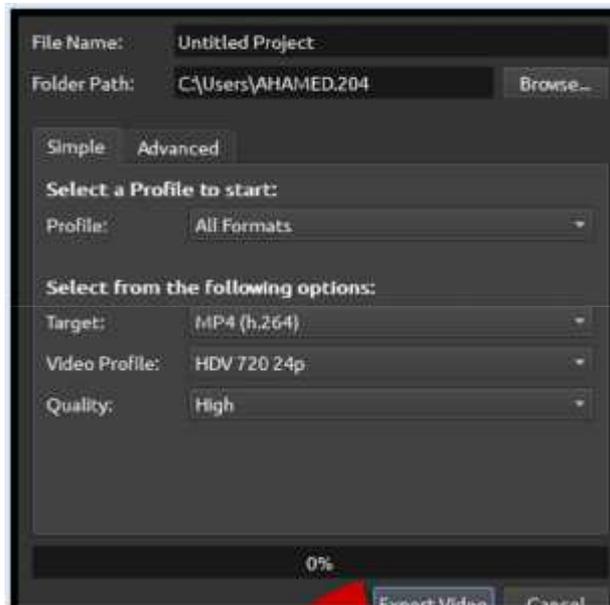


## Export video to a suitable extension:

Press export video button  from the main toolbar or from file menu select export video.

The save window appear and ask you to

- enter file name
- folder path on your computer
- choose suitable extension (high quality or low quality or medium)
- press export video.



## Video files extension types:

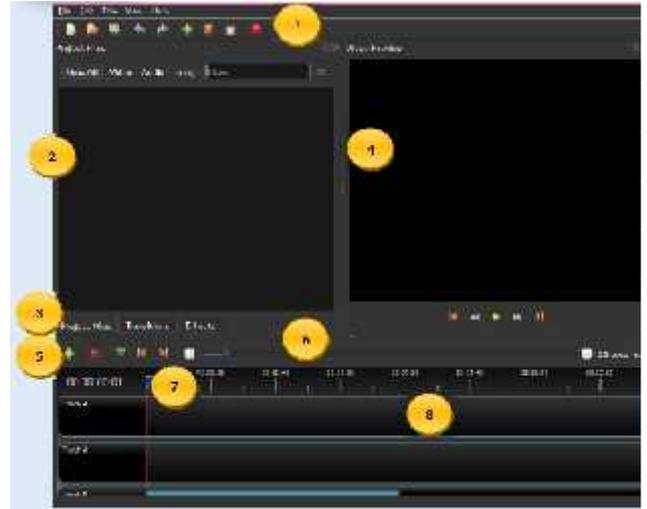
There are many extensions for videos such as (MP4, AVI, .....).

# Work Sheet

## Complete :

### The program GUI consists of:

- (a) .....
- (b) .....
- (c) .....
- (d) .....
- (e) .....
- (f) .....
- (g) .....
- (h) .....
- (i) .....



### Steps to create video clips:

- (a) .....
- (b) .....
- (c) .....
- (d) .....

### Re-Arrange to save project

- Save project file inside project folder.
- Save project file (give it a name) from Main Toolbar , select File, then save Project As.
- Create folder for the project (give it a name) on one of the storage devices.
- Put all files (image – sound - ..... ) that we will use to create video inside project folder.

# creating Web Pages using HTML

## HTML (hyper text markup language):

Is a code used to create static web pages that we can show it through one of the browser programs.

## HTML Rules:

- We can use one of the text editors such as word pad or note pad to write HTML code.
- We write HTML code between this two brackets < >.
- Each tag has start < > and end </ >.
- Save text file with extension (.html).
- Open saved file using one of the web browser programs to show the result.
- It is not required to write HTML tags with capital letters or small letters.
- Each tag has attribute and value.

## Structure of creating web page using HTML:

HTML code consists of two main parts:

**Head:** the place where we write the address of the page.

**Body:** the place where we write the content of the web page.

**Add title to the web page:** using <title>.....</title>.

Open the file after saving it ( .html) to show the result on the browser.

```
<html>
<head>
<title> the title </title>
</head>
<body>

</body>
</html>
```

## Add content to the web page :

This content may be (Text, image , video, hyperlink, ....).

To change web page content direction from right to left or from left to right we use dir.

Attribute	Its effect
rtl	Web page content from right to left
ltr	Web page content from left to right

```
<html>
<head>
<title> the title </title>
</head>
<body dir="rtl">

</body>
</html>
```

## Web page setup:

- 1- Write in new line using <br>.
- 2- Centering the text using <center>..... </center>.
- 3- Add spaces between words using &nbsp;.
- 4- Font setup using <font>.....</font>.

Attribute	Its function
face	Font type
color	Font color
size	Font size

- 5- Font setup <u>.....</u> , <i>.....</i> , <b>.....</b> .

Attribute	Its function
<u>	Underline
<b>	bold
<i>	italic



## Insert image inside the web page:

We can insert image using tag `<img>` and its attribute is `src`, then write the name and extension of the image.

```
<html>
<head>
</head>
<body>

</body>
</html>
```



## Control image sizes :

We can control that using tag `<img>` and its attribute is `height="..."` & `width="..."` . we use pixel in our measurement.

```
<html>
<head>
</head>
<body>

</body>
</html>
```

## Align image inside the web page:

We can align image using tag `<img>` ,its attribute is `Align` & its value is (right, left, bottom, top or middle).

value	Function
Right	Align image at the right of web page
Left	Align image at the left of web page
Middle	Align text in the middle of the image
Bottom	Align text at the bottom of the image
Top	Align text at the top of the image

```
<html>
<head>
</head>
<body>

</body>
</html>
```



## Insert sound in the web page:

We can insert sound as web page background & listen to it when our web page loading using `<bgsound>` tag & its attribute is `src` & its value is the (name-extension .MP3) of the sound that we save in the folder of the web page content.

```
<html>
<head>
</head>
<body>
<bgsound src="school.mp3">
</body>
</html>
```

### Note

Internet explorer is the only browser that support execution of the tag `<bgsound>`.

Insert video inside the web page:

We can do this using tag `<embed>`, its attribute is `src` & its value is the name and extension of the video, but we should know that this command support only (.mov - .avi - .swf) extensions.

```

<html>
<head>
</head>
<body>
<embed src="school.avi">
</body>
</html>

```



## Insert hyperlink in the web page:

**Hyperlink** is an image or text that is connected by an address and when we click on this address we will go to it, this address may be inside the same web page or another page inside the same site.

Insert hyperlink:

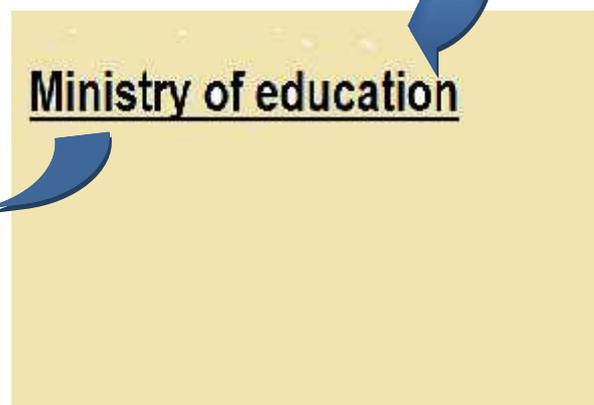
We can insert hyperlink using tag `<a>`, its attribute is `href` & its value is the address that we want to go to it.

`<a href="address that we want to go to it">image or text </a>`.

```

<html>
<head>
</head>
<body>
<a href="http://www.moe.gov.eg">Ministry of education</a>
</body>
</html>

```



## Insert image hyperlink:

```
<html>  
<head>  
</head>  
<body>  
<a href="page.html">  </a>  
</body>  
</html>
```



# Work Sheet

## Choose the correct answer:

- 1- HTML is .....

  - (1) Hyper Text Markup Library
  - (2) Help Table Made Layout
  - (3) Hyper Text Markup Language

- 2- Web page that we use HTML to design it is .....

  - (1) Dynamic
  - (2) Active
  - (3) Static

- 3- We use java script, PHP and HTML in web page design to convert it to .....

  - (1) Dynamic
  - (2) Main

- 4- To insert text to the web page we write this text in.....

  - (1) Head
  - (2) Title
  - (3) Body

- 5- We should save HTML file with extension .....

  - (1) .Docx
  - (2) .jpg
  - (3) .html

- 6- To make the text italic in the web page we use tag .....

  - (1) <u>
  - (2) <i>
  - (3) <b>

- 7- To select background color for the web page we use .....

  - (1) Bgcolor
  - (2) Background
  - (3) Color

8- The attribute of the tag <img> is .....

- (1) Path
- (2) Href
- (3) Src

9- The tag <a> used in ..... In the web page.

- (1) Align text
- (2) Add hyperlink
- (3) Play video

10- To select type of the font <font> we use attribute .....

- (1) Fontname
- (2) Size
- (3) Face

**Match :**

1- Web site	( ) file that has electronic content publish on the internet & can show it through browser program
2- Main page	( ) produce information to visitors that they can see it only without enable them to process its content
3- Web page	( ) place on the internet consists of one or more we pages we can visit it through an address
4- Static page	( ) the first page in the web site that we can through it go to other web site pages
5- Dynamic page	( ) it is a function to move between web site pages
	( ) it is information page that allow visitors to interact with it & process it

**Put ( ) or (×) :**

- 1- HTML used to create dynamic web pages. ( )
- 2- We use java script to convert static web pages to dynamic web pages. ( )
- 3- The first tag that we write in the code refer to that the file wrote in html language is <title>. ( )
- 4- To control the number of spaces between words we use &nbsp; ( )
- 5- To add image to the web page we use the tag <img>. ( )

**What each code refer to :**

<Title> My School </Title>

.....

<body bgcolor="green">

.....

<Img src = "school.jpg">

.....

<font face="andalus">

.....

<bgsound src="egypt.MP3">

.....

# creating Project My school Site



- 1- Main web page "My School" save as file Home.html .
- 2- Web page "About School" save as file about.html .
- 3- Web page "Photo Albums" save as file photo.html .
- 4- Web page "vision & mission" save as file vision.html .



# Creating the web page "About school" "about.html"



```
<html>
<head>
<title> My school </title>
</head>
<body bgcolor="sky blue" dir="ltr">
<center>
<font face="tahoma" color="black" size="14">
About school <br>
History of the school <br>
School address - 6 october city <br>
Telephone:01000335245 <br>
Education Stages :kg,pri,prep,sec <br>
<embed src="video.mp4" height="300" width="300">
<br><br>
<a href="home.html"></a>
</center>
</body>

</html>
```

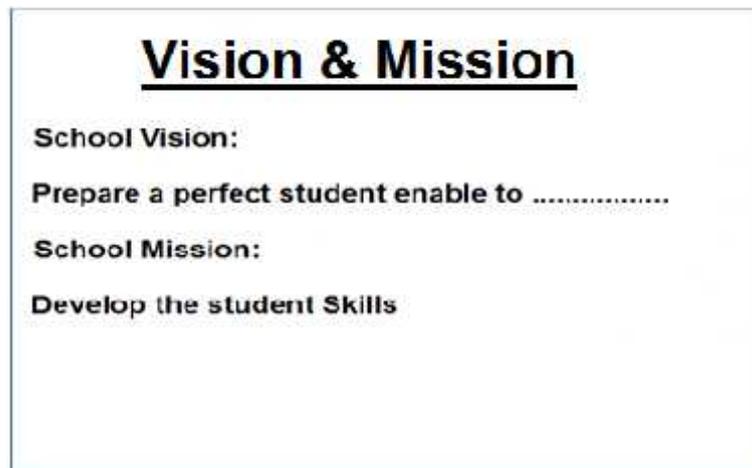
## Creating the web page "Photo Album" "Photo.html"



```
<html>
<head>
<title> My school </title>
</head>
<body bgcolor="sky blue">
<center>
<font face="tahoma" color="black" size="14">
Photo Album <br>


<br>
<a href="home.html"></a>
</center>
</body>
</html>
```

# Creating the web page "Vision & Mission" vision.html



```
<html>
<head>
<title> My school </title>
</head>
<body bgcolor="sky blue">
<center>
<font face="tahoma" color="black" size="14">
<u>Vision & Mission </u>
<br><br>
Prepare a perfect student enable to....<br>
Mission<br>
Develop the student skills<br>
<br><br>
<a href="home.html"></a>
</center>
</body>
</html>
```