

Introduction to Photoshop CS6



Dear **Teacher**,
We came to know that Photoshop is an advanced image editing software. Is it true?

Yes **Students**,
This is true.
Photoshop is an advanced image editing software.
Let's learn about it.



Adobe Photoshop is professionally used for creating and editing graphics and photographs, drawing shapes and colouring.

Starting Photoshop

The steps to start Photoshop:

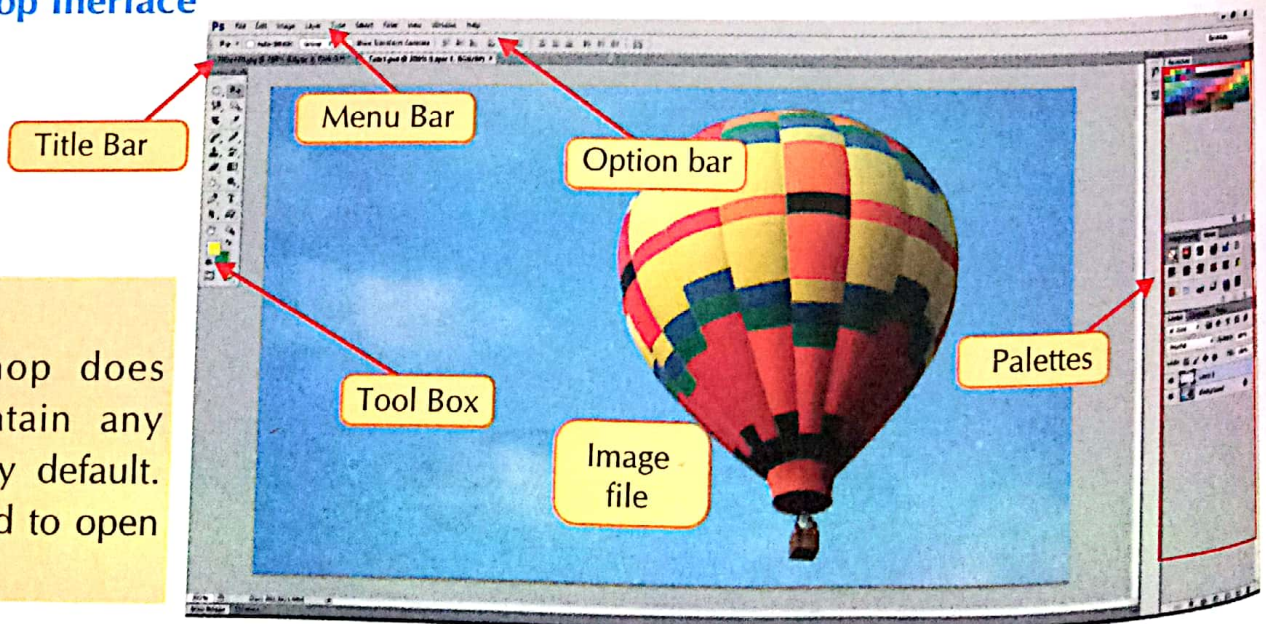
Windows 10: Click on **Start** → **Adobe** → **Photoshop CS6** (whichever version is installed).

Windows 7: Click on **Start** → **All Programs** → **Photoshop CS6** option.

Photoshop Interface

Note

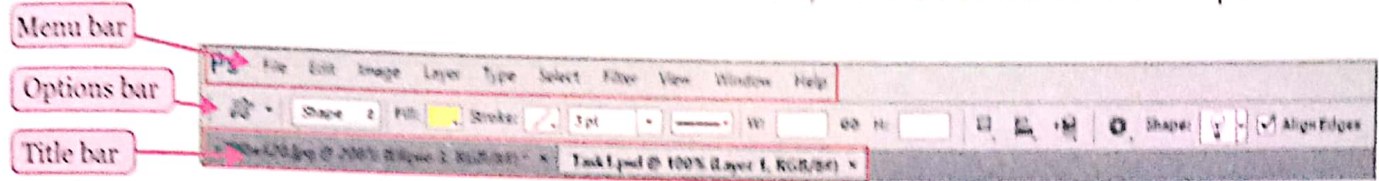
Photoshop does not contain any image by default. You need to open a file.



Title Bar: Title bar displays the title of the file in its tab.

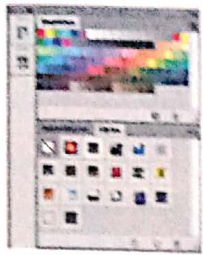
Menu Bar: Menu bar contains the menus of Photoshop, such as **File**, **Edit**, **Image** etc.

Options Bar: The **Options bar**, below the menu bar, shows additional Tool Options.



Tool Box: It contains various tools required for image processing.

Palettes



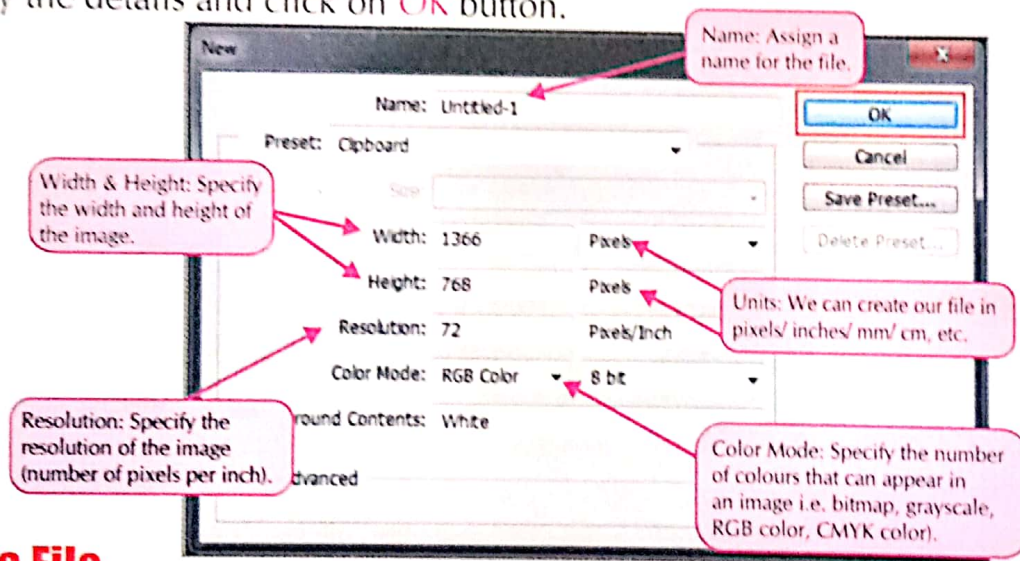
Palettes display additional choices to control the working of any tool or feature. Palettes usually visible are **Navigator**, **Color**, **Histogram**, **Swatches** and **Layer**.

To display the palettes, go to **Window** in the **Menu bar** and choose palettes you need to work with.



Creating a New File

1. **File** menu → **New** option. The **New** dialog box appears.
2. Specify the details and click on **OK** button.



Saving a File

1. **File** menu → **Save** option. The **Save As** dialog box appears.
2. Specify file name, select the location to save the file and click on **Save** button.

Opening a File

To open a file: **File** menu → **Open** option. In the **Open** dialog box, locate the desired file and click on **Open** button. Photoshop supports formats such as ***.PSD**, ***.TIFF**, ***.BMP**, ***.JPEG**, ***.GIF**, ***.PCX** etc.

Closing a File and Exiting Photoshop

To close a file, click on **File** menu → **Close** option.

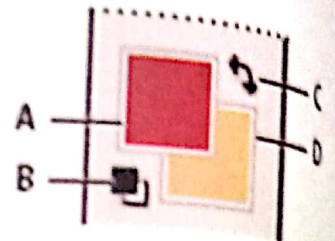
To exit Photoshop, click on **File** menu → **Exit** option.

Changing Background and Foreground Colour

The foreground color defines the color that you write, draw or paint on the canvas. The current foreground color appears in the upper color selection box in the toolbox, the current background color appears in the lower box.

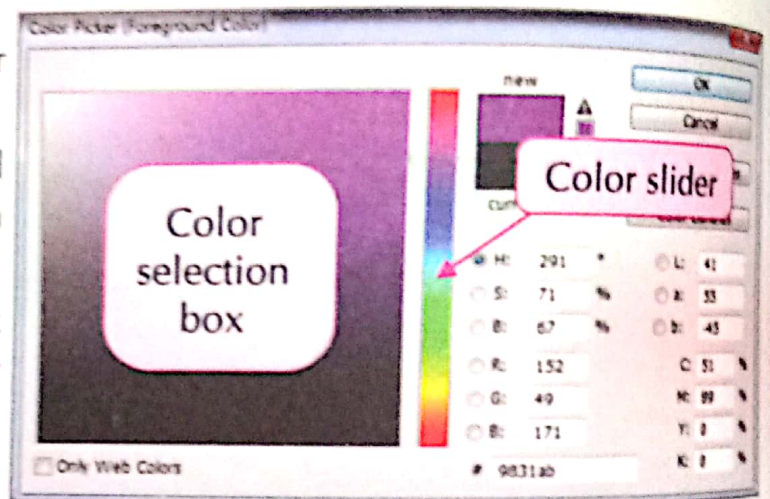
Foreground and background color boxes in toolbox.

- A. Foreground color box
- B. Default colors icon
- C. Switch colors icon
- D. Background color box



The steps to change the foreground or background colour are:


1. Click on **Foreground** and **Background** color selection box in the toolbox.
2. The **Color Picker** dialog box appears. Choose the color in **Color Picker**. Then, click **OK** button.



Working with Images through Activities

Let us explore various tools and basic features of Photoshop through various activities.

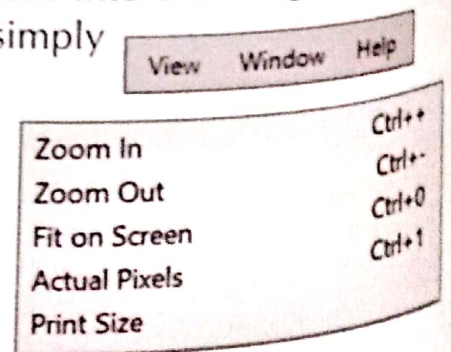
ACTIVITY 1: Zooming in and out

Tools used: Zoom tool 



To focus on a particular region of an image you can zoom into the image and once your task is done, you can zoom out of it. To zoom in simply press **Ctrl + + key** and to zoom out, press **Ctrl + - key**.

In addition to this, you can fit the image to screen by pressing **Ctrl + 0**. To see the image in its actual size, press **Ctrl + 1**.

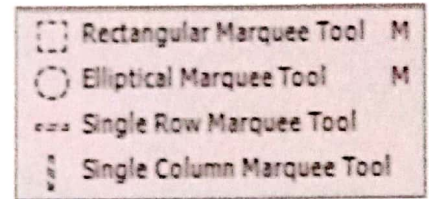
You will find these options in **View** menu.



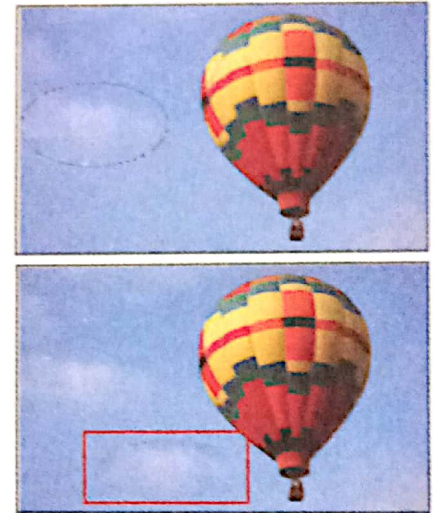
ACTIVITY 2: Duplicating a part of image by simple selection

Tools used: Various Marquee tools  and Move Tool 

To manipulate any part of the image, first select that part using various *Selection tools*. The simplest one are the **Rectangular Marquee** and **Elliptical Marquee**. They are used to select a rectangular and circular region. Any manipulation is applied on the selected region of the image. Let us, increase the number of clouds in this image.



1. In the Toolbox, right click on **Marquee tool** and select **Elliptical Marquee Tool**.
2. Click on the image and drag the mouse to select a piece of cloud as shown here.
3. Take **Move Tool** in the Toolbox and press **Alt key** on the keyboard.
4. Keep **Alt key** pressed, click on the selection and move the mouse. The copy of the cloud will move away.



Note

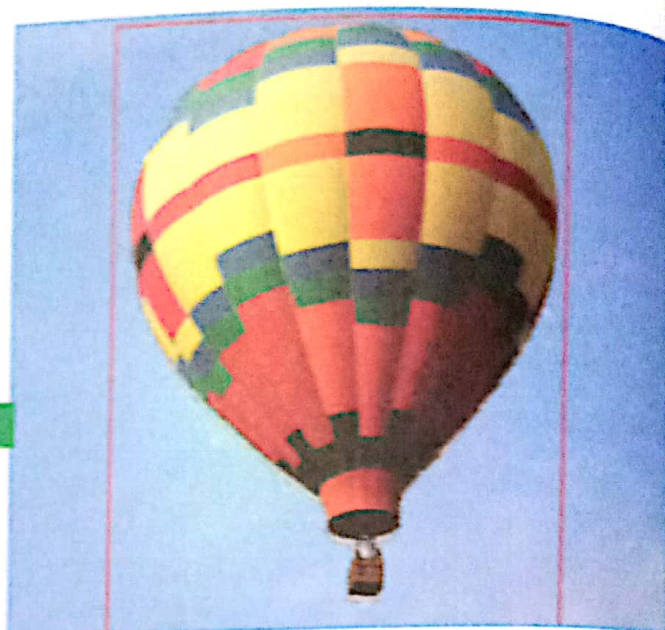
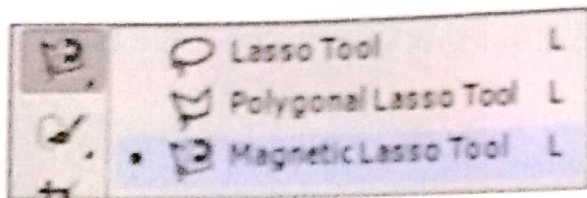
Selection Modes in Options bar: To add an area to the existing selection, hold down **Shift** key while selecting. To subtract an area from the existing selection, hold down **Alt** key while selecting. To intersect an area with the existing selection, **Shift + Alt** keys while selecting. These options are available in **Options** bar.

ACTIVITY 3: Creating duplicate balloon.

Tools used: Magnetic Lasso Tool  and Move Tool 



To create a copy of the balloon in our image, we need to select the balloon only. To select an irregular shape like balloon, we need **Magnetic Lasso Tool**. It senses the colour and sticks the selection outline to it as you click around the desired selection.

1. Right click on **Lasso tools** in the Toolbox. Select **Magnetic Lasso Tool** from the pop-up.
2. Click at the top of the balloon and move downwards, around the outline of the balloon, slowly. Keep clicking at shorter distances. The selection outline magnetically sticks to the outline of the balloon.
3. Finally, you will come back around to the starting point (your first click) with selection outline around entire balloon. At this point, **double click** to complete the selection.



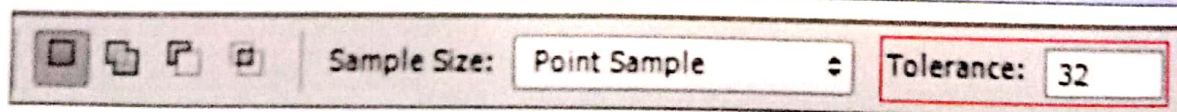
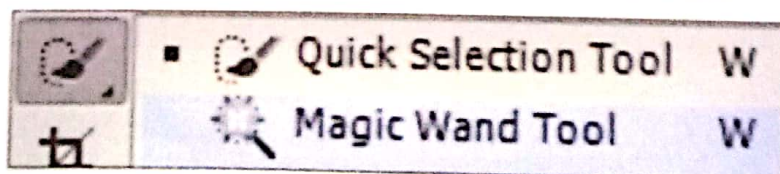
4. Take **Move Tool** in the Toolbox and press **Alt key** on the keyboard.
5. Keep **Alt key** pressed, click on the selected balloon and move the mouse to get balloon's copy.

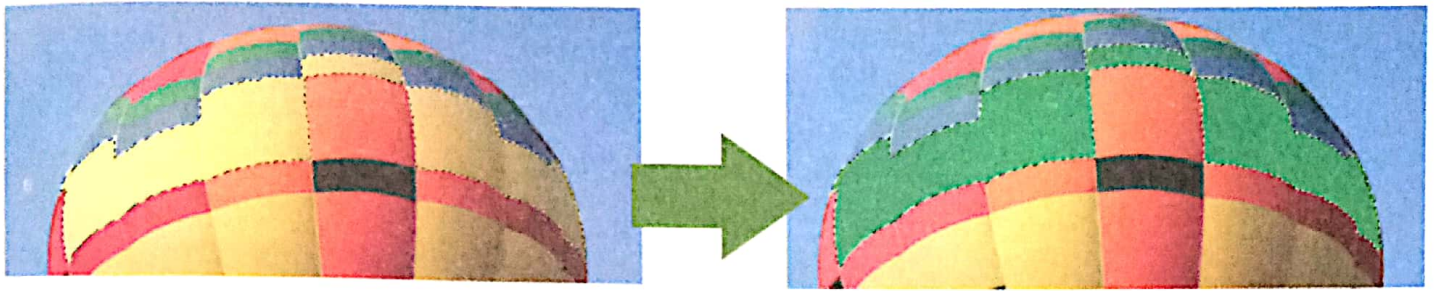
ACTIVITY 4: Changing some colour in the balloon.

Tools used: Magic Wand Tool  and Paint Bucket Tool 

Photoshop allows us to select a region of the image by sensing the colours in it. For example, in our image, we can select the top yellow colour in the balloon. The span of colour selected is determined by a property called **Tolerance**. Higher the tolerance, more will be the span of the selection. In our example, we shall keep the Tolerance 32 in the **Options** bar above the image.

1. In the Toolbox, select **Magic Wand Tool** and set the Tolerance to 32 in the Options toolbar.
2. Click on the top, yellow coloured region in the balloon. Some yellow region will be selected.
3. Press **Shift key**, keep it pressed and do further clicks to increase the selection area.
4. In the Toolbox, pickup the **Paint Bucket Tool**.
5. In the **Swatches** panel, select the desired colour and click in the selection.

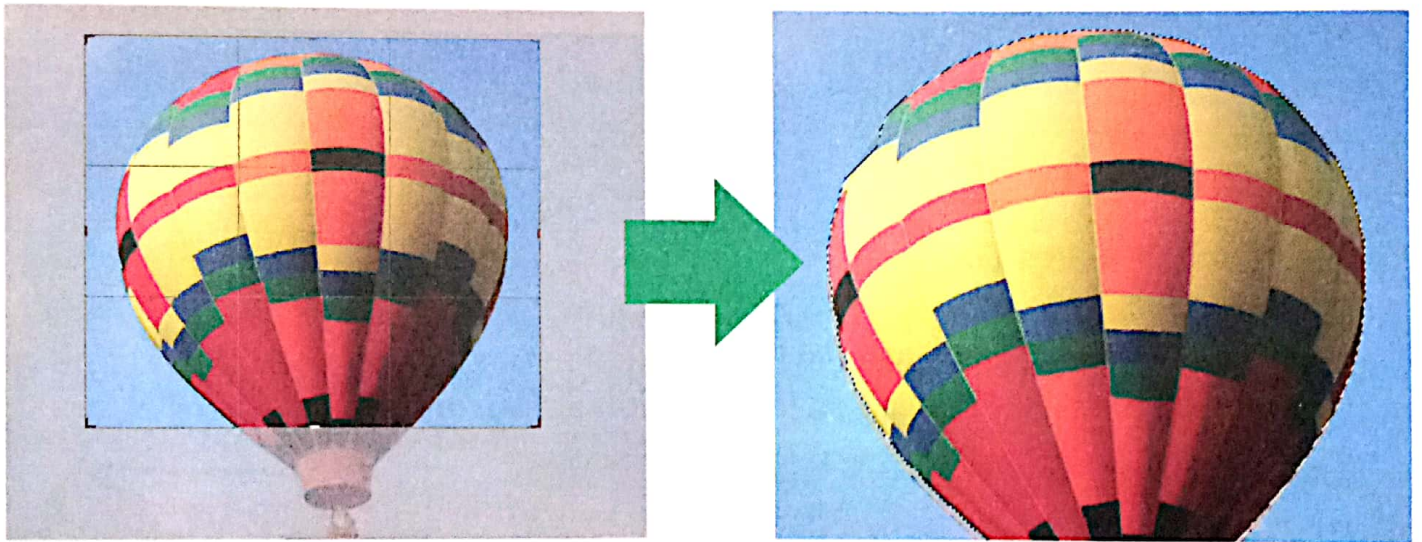




ACTIVITY 5: Removing outer area around the image.

Tools used: Crop Tool 

To remove the unwanted outer area of the image, pick up the Crop Tool in the Toolbox and drag with mouse to mark the area which you need to keep. Double click inside the bounding rectangle that is created. The region outside the bounding rectangle will be cropped.



ACTIVITY 6: Making simple drawing and painting.

Tools used: Brush Tool, Pencil Tool

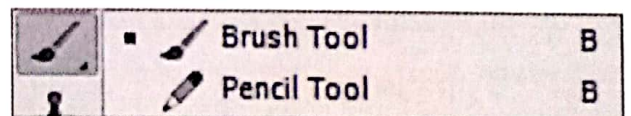
Drawing Tools Options

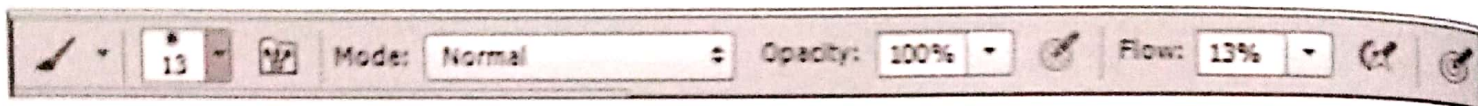
Drawing tools provide some common options which can be set for desired output of the drawing. Some common options are described here:

Size, Hardness and Shape: These determine the thickness, hardness and various shapes of the tip of the pen or pencil.

Opacity: Determines opacity of the drawing (0 means maximum transparency)

Flow: Amount of colour retained as you draw. Higher value draws with more colour.



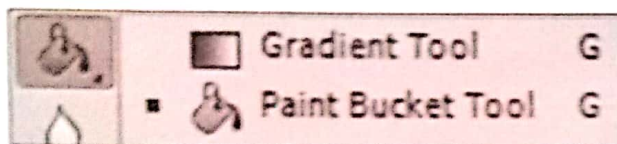


In the Toolbox, pick up the **Pencil Tool** or **Brush Tool**, select the desired colour from **Swatches Panel** and draw.

ACTIVITY 7: Filling colours in the drawing.

Tools used: Paint Bucket Tool, Gradient Tool

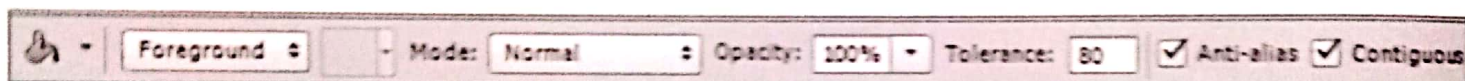
Various drawing and painting tools help create our own drawing in Photoshop.



Painting Tools Options

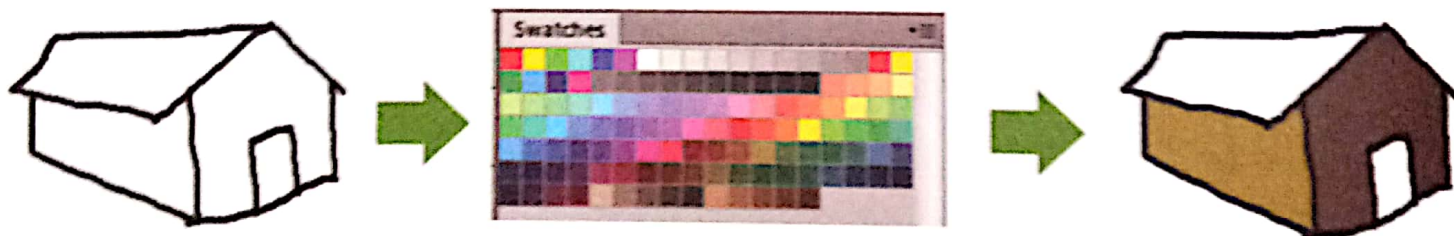
Opacity: Determines opacity of the drawing (0 means maximum transparency)

Tolerance: Range of colour to fill. Higher the value, larger will be the colour span.



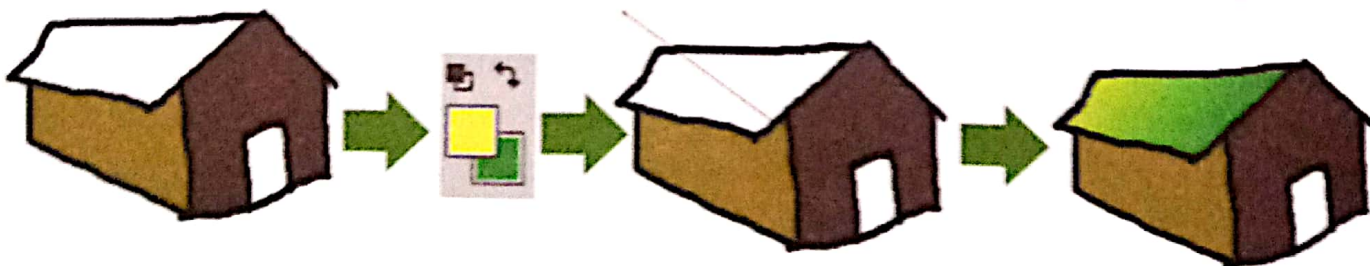
Contiguous: Determines if all pixels or the similar colour should be filled or not.

To fill the colour in the drawing with solid colour, in the Toolbox, pick up **Paint Bucket Tool**, in the **Swatches Panel**, select the desired colour and click in the drawing where you need to fill the colour or click on the selection already made.



Let us fill the roof of the hut with **Gradient Tool**. In the Toolbox:

1. Pick up the **Magic Wand Tool** and select the roof by clicking inside it.
2. Take two different colours in **Foreground** and **Background** colour boxes.
3. Drag over the selection in the roof to fill the gradient. Try short and long drags.

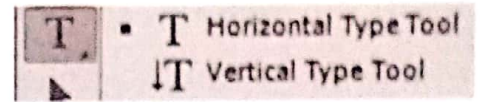
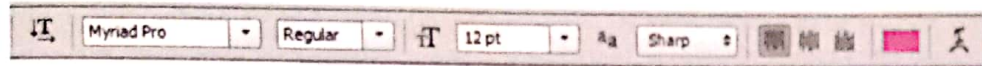


ACTIVITY 8: Adding a slogan to the image.

Tools used: Text Tool

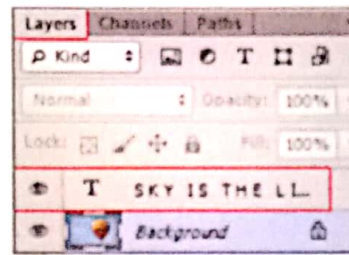
Text tool allows adding text in the image in horizontal as well as vertical orientation. Size, color and other attributes of the text can be specified and adjusted. Let us add a vertical slogan to our image:

1. In the toolbox, click open Text Tool and select the **Vertical Type Tool**.
2. On the **Options** bar at the top, select desired font, font style, size and anti-aliasing (how sharp and clear the text should look).



3. Click on the image and type.

Note that Layers palette shows that text appears above the image in a separate layer. To edit a previously typed text, select the proper text layer in the Layers palette or just select the text with the Text Tool.

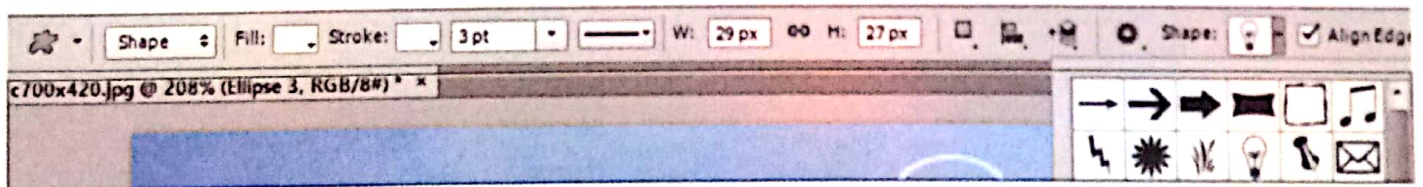
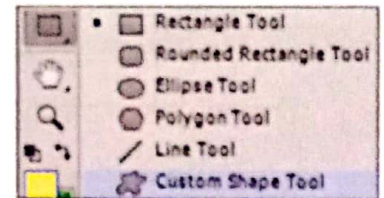


ACTIVITY 9: Adding custom shapes to the image.

Tools used: Shapes Tool [Various shapes]

Various shapes and custom shapes can be added to the image by clicking on Shape tool as shown here.

1. In the toolbox, select **Custom Shape Tool**.
2. Select Fill colour, Stroke (outline) colour, stroke width and desired shape from the options bar then draw the image.



ACTIVITY 10: Setting foreground colour from any colour in the image.

Tools used: Eyedropper Tool

Using **Eyedropper** tool you can pick up a colour from any area of the image. Simply click on **Eyedropper Tool** in the toolbox and click on the desired colour in the image.

Hand Tool and Eraser Tool

A large image can be scrolled by grabbing it with **Hand Tool**. Simply click on the Hand Tool in the toolbox, click on the image with mouse and drag.

Eraser tool erases the desired part of the image in foreground colour. As shown here, the foreground colour was set to white before erasing. Simply, click on the **Eraser Tool** in the toolbox, click on the starting point in image to erase and drag.



Glossary

- Colour Palette** : It displays the foreground current or background colour.
- Tool Box** : It is a collection of tools.
- Options bar** : Shows various options for the selected Tool in the toolbox.

Quick Review

- Photoshop is a program used for creating and editing graphics and photographs.
- Photoshop supports image formats like PSD, TIFF, BMP, JPEG, GIF, PCX etc.
- There are various tools to manipulate images in different ways.



Exercise



A. Choose the correct answer.

1. Which of the following formats is not in Adobe Photoshop?

a) *.PSD	<input type="radio"/> b) *.PNG
c) *.JPEG	<input type="radio"/> d) *.AVI
2. With the help of which of the following, objects can be moved on canvas.

a) Lasso tool	<input type="radio"/> b) Move tool
c) Text tool	<input type="radio"/> d) Menu bar
3. Images can be viewed and modified using the functions of which of the following?

a) Selection tool	<input type="radio"/> b) Palette
c) Move tool	<input type="radio"/> d) Option bar

4. Foreground and background colours are displayed by _____
- a) Color Palette
 - b) Ink Bottle tool
 - c) Menu bar
 - d) Paint bucket tool

B. Fill in the blanks.

Tolerance, Text, Rectangular Marquee, Option

1. In Photoshop, _____ is not the available option in menu bar.
2. _____ tool is the part of tool box.
3. _____ tool is an option available in Selection tool.
4. _____ refers to the colour sensitivity of a selection tool.

C. Name the tools for the following.

1. To change foreground colour.

2. To work with text.

3. To create hard edged drawing.

4. To select similar contiguous color in an image.

D. Answer the following questions.

1. What is the use of Title bar, Menu bar and Option bar.

2. In Photoshop, how will you add to, subtract from and intersect a new selection with the existing selection.

3. In Photoshop, what is the basic difference between Magnetic Lasso tool and Magic Wand tool?

4. Write the steps to add a shape in the image in Photoshop.

5. What do you mean by Opacity and Tolerance properties in Photoshop?



Lab Activity

Try activities given in the chapter for practice in Lab.

Teacher's Signature : _____

Teacher's Remark : ☆☆☆☆☆



WEB LINKS
<http://www.ghdean.com/tips/articles/Issue-30.htm>
<http://www.wikihow.com/Change-Foreground-Color-in-Adobe-Photoshop>

Teacher's Corner

Provide more lab time to students for this chapter.