



A. Tick () the correct option.

1. The python program must be saved with the _____ extension.

(c) .py

2. Which of the following is the Python prompt?

(c) Run module

B. Fill in the blanks using the given words.

1. The **Exit IDLE** command in file menu is used to exit Python IDLE.

2. The Run command is available in **Run** menu.

C. Write true or false.

1. Python IDLE is used to create programs in interactive mode. **F**

2. You cannot execute a program in IDLE without saving it. **T**

D. Define the following.

1. IDLE

- An Integrated Development and Learning Environment.
- It is used in script mode for creating, editing, and executing Python programs.
- It can also be used in interactive mode to execute individual instructions of Python.

2. Prompt - The “>>>” is prompt in the Python interactive mode. It indicates that you can start typing the code.

F. Long answers:

1. Explain the components of Python IDLE.

Components of Python IDLE are,

Menu Bar: It contains various options such as File, Edit, Shell, Debug, Options, Window.

Title Bar: It shows the version of Python that you are using.

Prompt: Here, >>> appears which indicates that you can type a command.

2. Explain the steps to create and save a program in IDLE.

Creating a program in IDLE

Step1: Select the New File option from the File menu.

Step2: A new window will open, you can write the Python script.

Saving a program in IDLE

Step1: Click on File.

Step2: Select Save or Save As option.

Step3: Navigate to the desired location and type the name of the file.

Step4: Click on Save.

4. How will you execute a Python program?

Steps to Execute a Python program,

Step1: Select the Run Module option from the Run menu.

Step2: The script is executed.

Step3: And the output of the script is displayed in the Python Shell.

CHAPTER 6 - IMAGE EDITING IN GIMP

A. Tick () the correct option.

1. Which of the following is not an image file format?

(A) .gif

2. Which of the following is a Transform Tool?

(c) Both of these

3. Which of the following is not an image processing software?

(c) Flash

4. GIMP stands for_____

(a) GNU Image Manipulation Program

B. Fill in the blanks:

1. **Digital Image Editing** is the process of changing digital images electronically using software applications.

2. **XCF** is the native file format of GIMP.

3. The **Transform tool** is used to stretch the image.

4. The **Fuzzy selection tool** allows you to select contiguous areas of a similar color range.

C. Write True or False:

1. Pixel is a small unit of an image. T
2. The GIMP files are saved with the .xcf extension. T
3. The transform tools are used to select an object in GIMP. F
4. The shear tool is used to select an image. F

D. Short answer:

1. What is GIMP?

- GIMP stands for GNU Image Manipulation program.
- It is a free and open-source drawing and image retouching software.
- It can be freely downloaded from the internet

2. Define Pixels.

- Pixel stands for 'picture element'.
- A picture element is the smallest unit of information in a digital image.
- Every digital image is made up of a number of pixels.

3. What are the various selection tools available in GIMP?

The various selection tools available in GIMP are:

- Rectangle Select Tool
- Ellipse Select Tool
- Free Select Tool
- Fuzzy Select Tool
- Intelligent Scissors Tool

4. Name the file formats supported by GIMP.

- PEG, GIF, PNG, and TIFF are the common file formats which were supported by GIMP.
- It also supports special file formats such as multi-resolution and multicolour-depth Windows icon files.

E. Long answer questions.

1. Explain the steps to select an object in an irregular shape.

- The Free Select tool allows you to select areas in an irregular shape.
- The steps to select the area in an irregular shape are:
Step 1: Select the Free Select tool from the Selection Tools from Tools menu and then click at various points on the boundary of the area that you want to select.
Step 2: Close your selection by connecting the current pointer location to the start location with a straight line.

2. Explain the steps to rotate an image.

The steps to rotate an image are:

Step 1: Select the Rotate tool from the Transform Tools from the Tools menu and click on the image or selected area of the image.

Step 2: The Rotate dialogue box appears.

Step 3: Change the angle of rotation and click on Rotate when finalized. The selection or image is rotated.

3. How will you draw a shape in GIMP?

Drawing Shapes The steps to draw a circle or rectangle are:

Step 1: Navigate to File New.

Step 2: Select the height and width of your drawing canvas. And click on OK.

Step 3: Click the Rectangle Select tool and draw a rectangular selection.

Step 4: Select the foreground colour in which you want the shape boundary.

Step 5: Select Edit Stroke Selection. Choose the type of stroke (outline) and click the Stroke button. This will give an outline to the selection.

4. Write the steps to save an image in GIMP.

- In GIMP, you can save your image in different formats by specifying its extension.
- We generally save our images in XCF format, which is the native format of GIMP.
- The steps to save a file are:
 - Step 1:** Select File Save As. A Save Image dialogue box appears.
 - Step 2:** Once the dialogue box pops up, enter the image name with .xcf extension. For saving a file in a different format, you can expand the Select File Type node and select your preferred file type.
 - Step 3:** Click the Save button.