



## CLASS - VI COMPUTER SCIENCE NOTES OCTOBER

### Chapter - 5 AND CHAPTER - 6

#### **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.