## Assignment: 6 Write a Program that demonstrate color fonts

### Step 1: Open Eclipse and Create a New Java Project

- 1. Open Eclipse.
- 2. Go to **File** > **New** > **Java Project**.
- 3. Enter a project name (e.g., ShapeDemoProject).
- 4. Click Finish.

### **Step 2: Create a New Package**

- 1. In the Package Explorer (left panel), right-click on the src folder of your new project.
- 2. Select **New** > **Package**.
- 3. Name the package (e.g., com.example.shapes) and click Finish.

#### Step 3: Create a New Java Class

- 1. Right-click on the package you just created (e.g., com.example.shapes).
- 2. Select **New** > **Class**.
- 3. In the Name field, type ShapeDemo.
- 4. Check the box for **public static void main(String[] args)** if you want Eclipse to autogenerate the main method.
- 5. Click Finish.

# Step 4:import the

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Import: JPanel, Graphics g, Color, JFrame, Font

package pro;

import java.awt.Color;

import java.awt.Font;

import java.awt.Graphics;

import javax.swing.JFrame;

import javax.swing.JPanel;

public class ColorAndFontDemo extends JPanel {

// Override the paintComponent method to draw with colors and fonts

@Override

protected void paintComponent(Graphics g) {

super.paintComponent(g); // Call the superclass method to ensure proper rendering

// Set background color

setBackground(Color.WHITE);
```

```
// Draw a colored rectangle with different border and fill color
  g.setColor(Color.CYAN); // Set fill color
  g.fillRect(50, 50, 200, 100); // x, y, width, height
  g.setColor(Color.DARK_GRAY); // Set border color
  g.drawRect(50, 50, 200, 100); // x, y, width, height (border)
  // Draw text with different font styles and sizes
  g.setColor(Color.RED); // Set color for text
  g.setFont(new Font("Serif", Font.BOLD, 20)); // Set font (Serif, Bold, Size 20)
  g.drawString("This is a BOLD Serif Font", 50, 200);
  g.setColor(Color.BLUE); // Set color for next text
  g.setFont(new Font("SansSerif", Font.ITALIC, 24)); // Set font (SansSerif, Italic, Size 24)
  g.drawString("This is an ITALIC SansSerif Font", 50, 250);
  g.setColor(Color.GREEN); // Set color for next text
  g.setFont(new Font("Monospaced", Font.PLAIN, 18)); // Set font (Monospaced, Plain, Size 18)
  g.drawString("This is a PLANE Monospaced Font", 50, 300);
  // Draw a string with custom font and size
  g.setColor(Color.MAGENTA);
  g.setFont(new Font("Arial", Font.PLAIN, 30)); // Set font (Arial, Plain, Size 30)
  g.drawString("Magenta Text in Arial", 50, 350);
// Main method to create the frame and display the panel
public static void main(String[] args) {
  // Create a frame to hold the panel
  JFrame frame = new JFrame("Color and Font Demo");
  // Set up the frame
  frame.setDefaultCloseOperation(JFrame.EXIT ON CLOSE);
```

}

```
frame.setSize(600, 500); // Width and height of the window

// Create an instance of the ColorAndFontDemo panel and add it to the frame

ColorAndFontDemo panel = new ColorAndFontDemo();

frame.add(panel);

// Make the frame visible

frame.setVisible(true);
}
```