Name : ibraheem

Sap id : 42896

Section : BSCS 5

Assignment 2

Task 3 and 4

Code

```java
import javax.swing.*;
import java.awt.*;

public class Main {
    public static void main(String[] args) {
        JFrame frame = new JFrame("Sketcher");
        frame.setLocation(500, 100);
        frame.setSize(600, 600);
        frame.setDefaultCloseOperation(WindowConstants.EXIT_ON_CLOSE);
        frame.getContentPane().setBackground(Color.gray);
        frame.setMinimumSize(new Dimension(600, 600));
        JMenuBar menuBar = new JMenuBar();
        JMenu fileMenu = new JMenu("File");
        menuBar.add(fileMenu);
        JMenu elementMenu = new JMenu("Element");
        menuBar.add(elementMenu);
        ButtonGroup elementGroup = new ButtonGroup();
        JRadioButtonMenuItem lineItem = new JRadioButtonMenuItem("Line",
true);
        JRadioButtonMenuItem rectangleItem = new
JRadioButtonMenuItem("Rectangle");
        JRadioButtonMenuItem circleItem = new JRadioButtonMenuItem("Circle");
        JRadioButtonMenuItem curveItem = new JRadioButtonMenuItem("Curve");
        elementGroup.add(lineItem);
        elementGroup.add(rectangleItem);
        elementGroup.add(circleItem);
        elementGroup.add(curveItem);
        elementMenu.add(lineItem);
        elementMenu.add(rectangleItem);
        elementMenu.add(circleItem);
        elementMenu.add(curveItem);
        JMenu colorMenu = new JMenu("Color");
        elementMenu.add(colorMenu);
        ButtonGroup colorGroup = new ButtonGroup();
        JRadioButtonMenuItem redColor = new JRadioButtonMenuItem("Red");
        JRadioButtonMenuItem yellowColor = new
JRadioButtonMenuItem("Yellow");
        JRadioButtonMenuItem greenColor = new JRadioButtonMenuItem("Green");
        JRadioButtonMenuItem blueColor = new JRadioButtonMenuItem("Blue",
```

```
true);
        colorGroup.add(redColor);
        colorGroup.add(yellowColor);
        colorGroup.add(greenColor);
        colorGroup.add(blueColor);
        colorMenu.add(redColor);
        colorMenu.add(yellowColor);
        colorMenu.add(greenColor);
        colorMenu.add(blueColor);
        frame.setJMenuBar(menuBar);
        frame.setVisible(true);
    }
}
```

output :