NAME: DEEPAK SHITOLE MIS NO: 642303019

ASSIGNMENT NO:- 07

SUBJECT: PPL

ASSIGNMENT NO:-07

PROGRAM:

```
import java.awt.event.*;
    import javax.swing.*;
    import java.awt.*;
    class Calculator extends JFrame implements ActionListener {
       static JFrame f;
       static JTextField I;
       String s0, s1, s2;
       Calculator() {
         s0 = s1 = s2 = "";
       }
       public static void main(String args[]) {
         f = new JFrame("My Calculator");
         try {
UIManager.setLookAndFeel(UIManager.getSystemLookAndFeelClassNa
me());
         } catch (Exception e) {
           System.err.println(e.getMessage());
         Calculator c = new Calculator();
         I = new JTextField(22);
         l.setEditable(false);
         JButton b0, b1, b2, b3, b4, b5, b6, b7, b8, b9, add, subtract,
multiply, divide, dot, clear, equals;
         b0 = new JButton("0");
```

NAME: DEEPAK SHITOLE SUBJECT: PPL **ASSIGNMENT NO:-07**

MIS NO: 642303019

```
b1 = new JButton("1");
b2 = new JButton("2");
b3 = new JButton("3");
b4 = new JButton("4");
b5 = new JButton("5");
b6 = new JButton("6");
b7 = new JButton("7");
b8 = new JButton("8");
b9 = new JButton("9");
equals = new JButton("=");
add = new JButton("+");
subtract = new JButton("-");
divide = new JButton("/");
multiply = new JButton("*");
clear = new JButton("C");
dot = new JButton(".");
JPanel p = new JPanel();
p.add(I);
p.add(b1);
p.add(b2);
p.add(b3);
p.add(b4);
p.add(b5);
p.add(b6);
p.add(b7);
p.add(b8);
p.add(b9);
p.add(b0);
p.add(dot);
p.add(add);
p.add(subtract);
p.add(multiply);
p.add(divide);
p.add(clear);
```

SUBJECT: PPL ASSIGNMENT NO:-07

NAME: DEEPAK SHITOLE MIS NO: 642303019

p.add(equals);

```
p.setBackground(Color.lightGray);
  f.add(p);
  f.setSize(300, 300);
  f.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
  f.setVisible(true);
  add.addActionListener(c);
  subtract.addActionListener(c);
  multiply.addActionListener(c);
  divide.addActionListener(c);
  b9.addActionListener(c);
  b8.addActionListener(c);
  b7.addActionListener(c);
  b6.addActionListener(c);
  b5.addActionListener(c);
  b4.addActionListener(c);
  b3.addActionListener(c);
  b2.addActionListener(c);
  b1.addActionListener(c);
  b0.addActionListener(c);
  dot.addActionListener(c);
  clear.addActionListener(c);
  equals.addActionListener(c);
}
public void actionPerformed(ActionEvent e) {
  String s = e.getActionCommand();
  if ((s.charAt(0) >= '0' && s.charAt(0) <= '9') || s.charAt(0) == '.')
    if (!s1.equals(""))
      s2 = s2 + s:
    else
```

NAME: DEEPAK SHITOLE MIS NO: 642303019

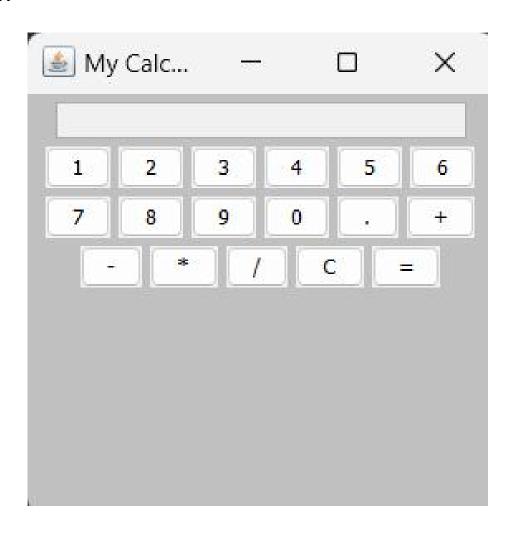
```
s0 = s0 + s;
           l.setText(s0 + s1 + s2);
         } else if (s.charAt(0) == 'C') {
            s0 = s1 = s2 = "";
           l.setText(s0 + s1 + s2);
         } else if (s.charAt(0) == '=') {
            double result;
            if (s1.equals("+"))
              result = (Double.parseDouble(s0) +
Double.parseDouble(s2));
           else if (s1.equals("-"))
              result = (Double.parseDouble(s0) -
Double.parseDouble(s2));
           else if (s1.equals("/"))
              result = (Double.parseDouble(s0) /
Double.parseDouble(s2));
            else
              result = (Double.parseDouble(s0) *
Double.parseDouble(s2));
            l.setText(s0 + s1 + s2 + "=" + result);
           s0 = Double.toString(result);
            s1 = s2 = "";
         } else {
            if (s1.equals("") | | s2.equals(""))
              s1 = s;
            else {
              double result;
              if (s1.equals("+"))
                result = (Double.parseDouble(s0) +
Double.parseDouble(s2));
              else if (s1.equals("-"))
                result = (Double.parseDouble(s0) -
Double.parseDouble(s2));
              else if (s1.equals("/"))
                result = (Double.parseDouble(s0) /
```

NAME: DEEPAK SHITOLE MIS NO: 642303019

SUBJECT: PPL ASSIGNMENT NO:-07

```
Double.parseDouble(s2));
    else
        result = (Double.parseDouble(s0) *
Double.parseDouble(s2));
        s0 = Double.toString(result);
        s1 = s;
        s2 = "";
        }
        l.setText(s0 + s1 + s2);
      }
}
```

OUTPUT:



NAME: DEEPAK SHITOLE MIS NO: 642303019

SUBJECT: PPL ASSIGNMENT NO:-07

