## **Gramin Technical And Management Campus Nanded**

## **Department Of Computer Engineering**

Microproject: Prepare A Calculator Design Using An Applet.

**Subject: Java Programming** 

Class: CO4i

Sr. No	Name Of Students	Roll No.
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```
Source Code:
import java.applet.*;
import java.awt.*;
import java.awt.event.*;
public class Calculator extends Applet implements ActionListener
{
  String cmd[] = {"+", "-", "*", "/", "=", "C"};
  int pv = 0;
  String op = "";
  Button b[] = new Button[16];
  TextField t1 = new TextField(10);
```

```
public void init()
{
  setLayout(new BorderLayout());
  add(t1, "North");
  t1.setText("0");
  Panel p = new Panel();
  p.setLayout(new GridLayout(4, 4));
  for (int i = 0; i < 16; i++)
  {
     if (i < 10)
       b[i] = new Button(String.valueOf(i));
     else
       b[i] = new Button(cmd[i % 10]);
       b[i].setFont(new Font("Arial", Font.BOLD, 25));
```

```
p.add(b[i]);
       add(p, "Center");
       b[i].addActionListener(this);
  }
}
public void actionPerformed(ActionEvent ae)
{
  int res = 0;
  String cap = ae.getActionCommand();
  int cv = Integer.parseInt(t1.getText());
  if (cap.equals("C"))
  {
    t1.setText("0");
    pv = 0;
```

```
cv = 0;
  res = 0;
  op = "";
}
else if (cap.equals("="))
  res = 0;
  if (op == "+")
     res = pv + cv;
  else if (op == "-")
     res = pv - cv;
  else if (op == "*")
     res = pv * cv;
```

```
else if (op == "/")
          res = pv / cv;
       t1.setText(String.valueOf(res));
     }
     else if (cap.equals("+") || cap.equals("-") || cap.equals("*") ||
cap.equals("/"))
       pv = cv;
       op = cap;
       t1.setText("0");
     }
     else
     {
```

```
int v = cv * 10 + Integer.parseInt(cap);
    t1.setText(String.valueOf(v));
}

/*
<applet code="Calculator.class" width=401 height=391>
</applet>
*/
```

## Output:

