

### DIGITAL ASSIGNMENT LAB - 3

NAME : NITHISH G

REG NO : 19BCS0012

COURSE : JAVA PROGRAMMING

#### 1. Hello world

##### Source code:

```
import java.applet.Applet;
import java.awt.Color;
import java.awt.Font;
import java.awt.Graphics;

public class hello world extends Applet {
public void paint(Graphics g) {
    Font myFont = new Font("Courier", Font. BOLD,13);
    g. setFont(myFont);
    g.setColor(Color. blue);
    g.drawString("NAME      : NITHISH G",1 ,15 );
    g.drawString("REG NO   : 19BCS0012",1 ,30 );
    int x=10;
    int y=20;
    int sum=x+y;
    String s;
    s=String.valueOf(sum);
    g.setColor(Color. red);
    g.drawString("Hello world!", 50, 75);
    g.drawString("Sum of "+x+" + "+ y + " : " +s, 50, 95);

}
}
```

##### Output



## 2. Sum of two number through textbox

**Source code:**

```
import java.applet.Applet;
import java.awt.*;

public class sum extends Applet {
    TextField text1,text2;

    public void init()
    {
        text1=new TextField(8);
        text2=new TextField(8);
        add(text1);
        add(text2);
    }

    public void paint(Graphics g) {

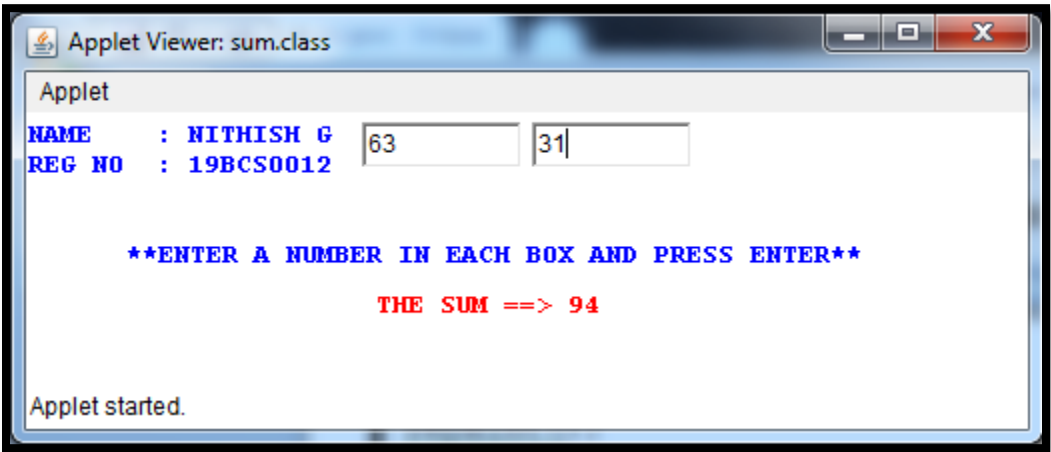
        Font myFont = new Font("Courier", Font. BOLD,13);
        g. setFont(myFont);
        g.setColor(Color.blue);
        g.drawString("NAME      : NITHISH G",1 ,15 );
        g.drawString("REG NO   : 19BCS0012",1 ,30 );
        int x=0;
        int y=0;
        int sum=0;
        String s1,s2,s;
        g.drawString("**ENTER A NUMBER IN EACH BOX AND PRESS ENTER**", 50, 75);
        try
        {
            s1=text1.getText();
            x=Integer.parseInt(s1);
            s2=text2.getText();
            y=Integer.parseInt(s2);
        }
        catch(Exception e){ }

        sum=x+y;

        s=String.valueOf(sum);
        g.setColor(Color.RED);
        g.drawString("THE SUM ==> "+s, 175, 100);
    }

    public boolean action(Event event, Object obj)
    {
        repaint();
        return true;
    }
}
```

**OUTPUT**



Source code

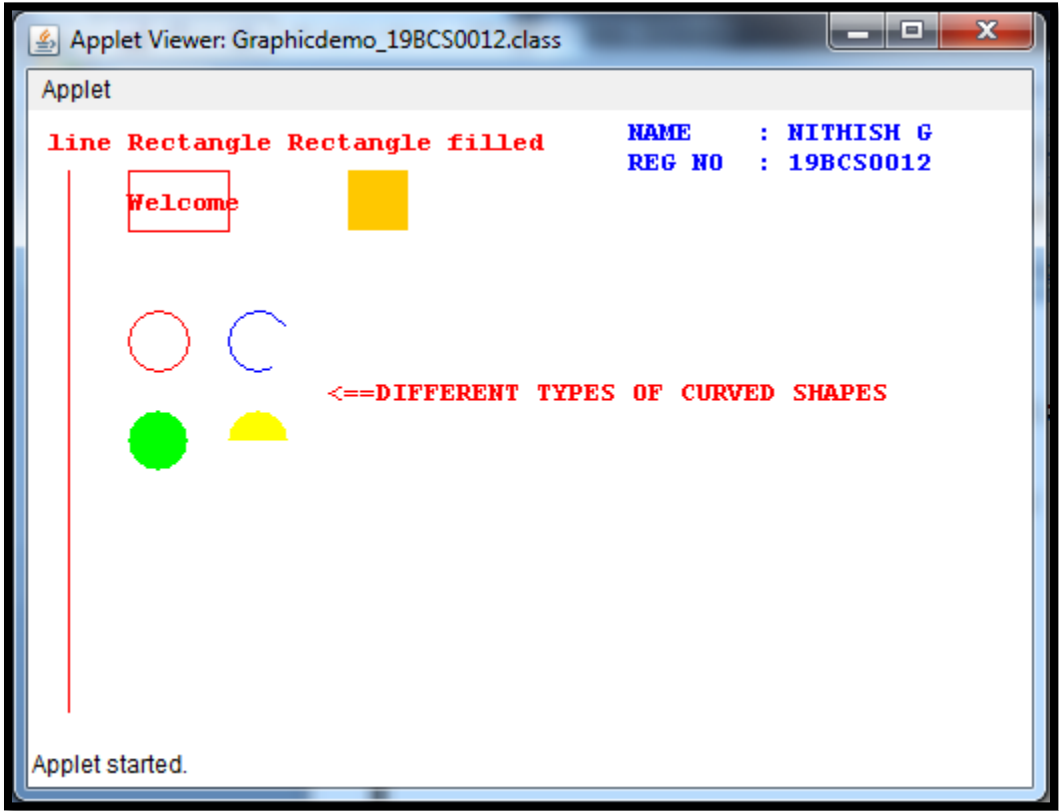
```
import java.applet.Applet;
import java.awt.*;

public class Graphicdemo 19BCS0012 extends Applet{

    public void paint(Graphics g)
    {
        Font myFont = new Font("Courier", Font. BOLD,13);
        g. setFont(myFont);
        g.setColor(Color.blue);
        g.drawString("NAME      : NITHISH G",300 ,15 );
        g.drawString("REG NO   : 19BCS0012",300 ,30 );
        g.setColor(Color.RED);
        g.drawString("Welcome",50, 50);
        g.drawString("line",10, 20);
        g.setColor(Color.red);
        g.drawLine(20,30,20,300);
        g.setColor(Color.RED);
        g.drawString("Rectangle",50, 20);
        g.setColor(Color.red);
        g.drawRect(50,30,50,30);
        g.setColor(Color.RED);
        g.drawString("Rectangle filled",130, 20);
        g.setColor(Color.orange);
        g.fillRect(160,30,30,30);
        g.setColor(Color.RED);
        g.drawString("<==DIFFERENT TYPES OF CURVED SHAPES",150, 145);
        g.drawOval(50,100,30,30);
        g.setColor(Color.green);
        g.filloval(50,150,30,30);
        g.setColor(Color.blue);
        g.drawArc(100,100,30,30,30,270);
        g.setColor(Color.yellow);
        g.fillArc(100,150,30,30,0,180);
    }

}
```

OUTPUT

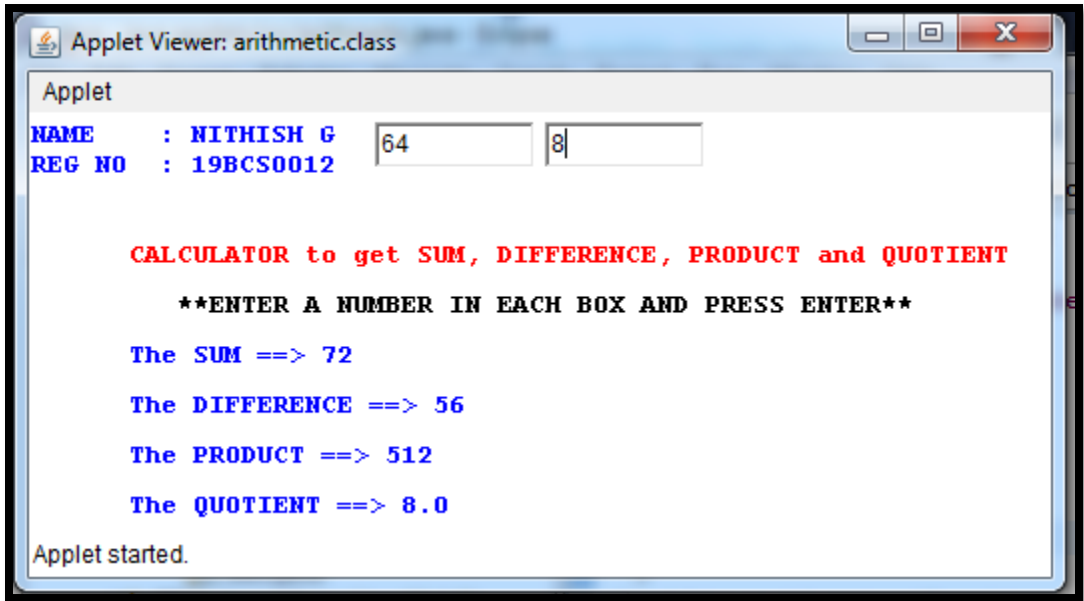


#### 4. Arithmetic

##### Source code

```
import java.applet.Applet;
import java.awt.*;
public class arithmetic extends Applet {
    TextField text1,text2;
    public void init()
    {
        text1=new TextField(8);
        text2=new TextField(8);
        add(text1);
        add(text2);
    }
    public void paint(Graphics g) {
        Font myFont = new Font("Courier", Font. BOLD,13);
        g. setFont(myFont);
        g.setColor(Color.blue);
        g.drawString("NAME      : NITHISH G",1 ,15 );
        g.drawString("REG NO   : 19BCS0012",1 ,30 );
        int x=0;
        int y=0;
        int sum=0;
        int diff=0;
        int prod=0;
        double q=0;
        String s1,s2,s;
        g.setColor(Color.RED);
        g.drawString("CALCULATOR to get SUM, DIFFERENCE, PRODUCT and QUOTIENT", 50, 75);
        g.setColor(Color.black);
        g.drawString("    **ENTER A NUMBER IN EACH BOX AND PRESS ENTER**", 50, 100);
        try
        {
            s1=text1.getText();
            x=Integer.parseInt(s1);
            s2=text2.getText();
            y=Integer.parseInt(s2);
        }
        catch(Exception e){ }
        sum=x+y;
        diff=x-y;
        prod=x*y;
        q=x/y;
        s=String.valueOf(sum);
        g.setColor(Color.blue);
        g.drawString("The SUM ==> "+s, 50, 125);
        s=String.valueOf(diff);
        g.drawString("The DIFFERENCE ==> "+s, 50, 150);
        s=String.valueOf(prod);
        g.drawString("The PRODUCT ==> "+s, 50, 175);
        s=String.valueOf(q);
        g.drawString("The QUOTIENT ==> "+s, 50, 200);
    }
    public boolean action(Event event, Object obj)
    {
        repaint();
        return true;
    }
}
```

OUTPUT



5. Smiley

Source code

```
import java.applet.Applet;
import java.awt.*;

public class smile extends Applet{
    public void paint(Graphics g){
        Font myFont = new Font("Courier", Font. BOLD,13);
        g. setFont(myFont);
        g.setColor(Color.blue);
        g.drawString("NAME      : NITHISH G",1 ,15 );
        g.drawString("REG NO   : 19BCS0012",1 ,30 );
        g.setColor(Color.blue);
        g.drawString("Smiley Welcomes You!!!",50, 50);
        //face
        g.setColor(Color.orange);
        //g.drawOval(160,100,110,110);
        g.fillOval(50,100,110,110);
        //eyes
        g.setColor(Color.black);
        g.fillOval(80,130,15,20);
        g.fillOval(115,130,15,20);
        //nose
        g.setColor(Color.black);
        g.fillOval(100,150,10,20);
        //mouth
        g.setColor(Color.black);
        g.fillArc(80,160,50,30,180,180);
    }
}
```

OUTPUT

