

JAVA

1) Program to draw circle, rectangle, line in applet.

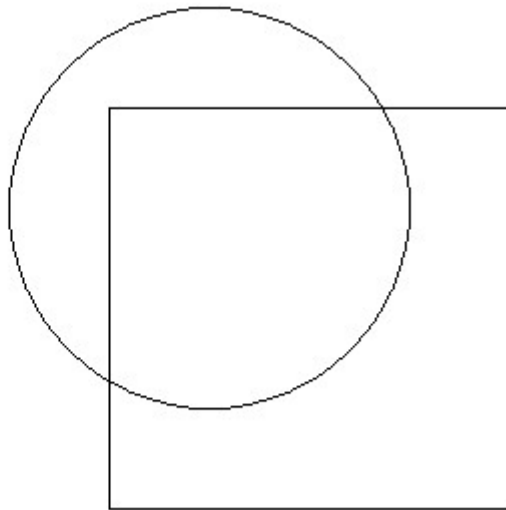
Program

```
import java.applet.*;  
  
public class shapes extends Applet  
{  
  
    public void paint(Graphics g)  
    {  
  
        g.drawLine(20,20,200,20);  
  
        g.drawOval(200,200,200,200);  
  
        g.drawRect(250,250,200,200);  
  
    }  
  
}
```

Output

Applet Viewer: shapes.class

Applet



2)

Program

```
import java.applet.Applet;
```

```
import java.awt.*;
```

```
public class sadsmile extends Applet {
```

```
    public void paint(Graphics g) {
```

```
g.setColor(Color.yellow);  
g.fillOval(20,20,150,150);  
g.setColor(Color.black);  
g.fillOval(50,60,15,25);  
g.fillOval(120,60,15,25);  
int x[] = {95,85,106,95};  
int y[] = {85,104,104,85};  
g.drawPolygon(x, y, 4);  
g.drawArc(70,130,50,20,0,180);  
  
}  
}
```

Output

Applet Viewer: sadsmile.class

Applet



Applet started.

```
D:\Java>javac sadsmile.java
D:\Java>appletviewer new11.html
I/O exception while reading: D:\Java\new11.
D:\Java>
D:\Java>javac sadsmile.java
D:\Java>appletviewer new11.html
```

3)

Program

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

public class calc extends Applet implements ActionListener
{
    Frame f = new Frame();

    Label l1 = new Label("enter number");
    Label l2 = new Label("enter number");
    Label l3 = new Label("result");
```

```
TextField t1 = new TextField(10);

TextField t2 = new TextField(10);

TextField t3 = new TextField(10);

Button b1 = new Button("ADD");

Button b2 = new Button("SUB");

Button b3 = new Button("MUL");

Button b4 = new Button("DIV");

calc()

{

l1.setBounds(50, 100, 100, 20);

l2.setBounds(50, 150, 100, 20);

l3.setBounds(50, 200, 100, 20);

t1.setBounds(200, 100, 100, 20);

t2.setBounds(200, 150, 100, 20);

t3.setBounds(200, 200, 100, 20);

b1.setBounds(50, 250, 50, 20);

b2.setBounds(110, 250, 50, 20);

b3.setBounds(170, 250, 50, 20);

b4.setBounds(230, 250, 50, 20);

f.add(l1);

f.add(t1);

f.add(l2);

f.add(t2);

f.add(l3);
```

```
f.add(t3);

f.add(b1);

f.add(b2);

f.add(b3);

f.add(b4);

b1.addActionListener(this);

b2.addActionListener(this);

b3.addActionListener(this);


b4.addActionListener(this);

f.setLayout(null);

f.setVisible(true);

f.setSize(500, 500);

}

public void actionPerformed(ActionEvent e)

{

    int i = Integer.parseInt(t1.getText());

    int j = Integer.parseInt(t2.getText());

    if (e.getSource() == b1)

    {

        t3.setText(String.valueOf(i + j));

    }

    if (e.getSource() == b2)

    {
```

```
t3.setText(String.valueOf(i - j));  
  
}  
  
if (e.getSource() == b3)  
{  
    t3.setText(String.valueOf(i * j));  
}  
  
if (e.getSource() == b4)  
{  
    t3.setText(String.valueOf(i / j));  
}  
}  
  
public static void main(String args[])  
{  
    new calc();  
}  
}
```

Output


 Applet Viewer: calc.class
Applet

4)

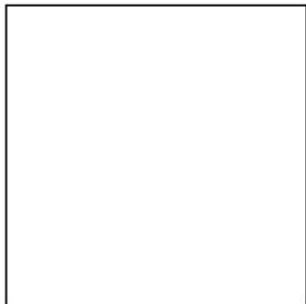
Program

```
import java.awt.*;  
  
import java.applet.*;  
  
public class rectapplet extends Applet  
{  
    public void paint(Graphics g)  
    {  
        g.drawRect(80,70,150,150);  
        g.setColor(Color.BLACK);  
    }  
}
```

Output

 Applet viewer: rectapplet.class

Applet



Program

```
import java.awt.*;  
  
import java.applet.*;  
  
public class circle extends Applet  
{  
  
    public void paint(Graphics g)  
    {  
  
        g.drawOval(80,70,150,150);  
  
        g.setColor(Color.BLACK);  
  
    }  
  
}
```

Output

