

# Artificial Intelligence and Data Science Department.

OOPM / Odd Sem 2021-22 / Experiment 14.

---

YASH SARANG.

47 / D6AD.

EXPERIMENT - 14.

---

**Aim:** To demonstrate the graphics font and Color class in java.

---

**Theory:** The Graphics class is the abstract superclass for all graphics contexts which allows an application to draw onto components that can be realized on various devices, or onto off-screen images as well.

---

## PART: 01 House import

### Program:

```
java.applet.Applet;  
import  
java.awt.Graphics;  
import java.awt.Font;  
import java.awt.*;  
public class HouseExample extends Applet {  
    public void paint(Graphics g) {  
        Font f = new Font("TimesRoman", Font.BOLD, 20);  
        g.setFont(f);  
        g.drawString("HOUSE", 320, 180);  
        //MAIN BUILDING STRUCTURE  
        g.setColor(Color.red);  
        g.drawRect(250, 200, 200, 400);  
        g.fillRect(250, 200, 200, 400);  
    }  
}
```

```

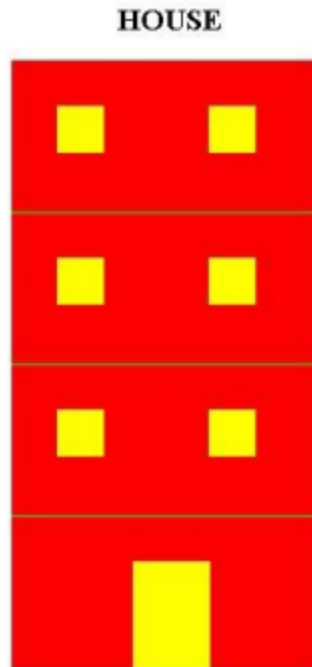
g.setColor(Color.green);
g.drawLine(250, 300, 450, 300);
g.drawLine(250, 400, 450, 400);
g.drawLine(250, 500, 450, 500);

//first row window one
g.setColor(Color.yellow);
g.drawRect(280, 230, 30, 30);
g.fillRect(280, 230, 30, 30);
//first row window second
g.setColor(Color.yellow);
g.drawRect(380, 230, 30, 30);
g.fillRect(380, 230, 30, 30);
//second row window first
g.setColor(Color.yellow);
g.drawRect(280, 330, 30, 30);
g.fillRect(280, 330, 30, 30);
//second row window second
g.setColor(Color.yellow);
g.drawRect(380, 330, 30, 30);
g.fillRect(380, 330, 30, 30);
//third row window first
g.setColor(Color.yellow);
g.drawRect(280, 430, 30, 30);
g.fillRect(280, 430, 30, 30);
//third row window second
g.setColor(Color.yellow);
g.drawRect(380, 430, 30, 30);
g.fillRect(380, 430, 30, 30);
// MAIN GATE
g.setColor(Color.yellow);
g.drawRect(330, 530, 50, 70);
g.fillRect(330, 530, 50, 70);
}
}
/*
<applet code="HouseExample" width="1000" height="1000">
</applet>
*/

```

---

**OUTPUT:**



---

## PART 02: TRAFFIC SIGNAL

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

public class TrafficExample extends Applet {
    public void paint(Graphics g) {
        Font f = new Font("TimesRoman", Font.BOLD, 20);
        g.setFont(f);
        //MAIN SIGNAL BOX
        g.setColor(Color.black);
        g.drawRect(250, 200, 200, 400);
        g.fillRect(250, 200, 200, 400);
        g.setColor(Color.yellow);
        g.drawLine(250, 300, 450, 300);
        g.drawLine(250, 400, 450, 400);
        g.drawLine(250, 500, 450, 500);
    }
}
```

```

g.drawString("SIGNAL", 320, 550);
//RED CIRCLE
g.setColor(Color.red);
g.drawOval(330, 220, 50, 50);
g.fillOval(330, 220, 50, 50);
//GREEN CIRCLE
g.setColor(Color.green);
g.drawOval(330, 320, 50, 50);
g.fillOval(330, 320, 50, 50);
//YELLOW CIRCLE
g.setColor(Color.yellow);
g.drawOval(330, 420, 50, 50);
g.fillOval(330, 420, 50, 50);
}
}
/*
<applet code="TrafficExample" width="1000" height="1000">
</applet>
*/

```

---

## OUTPUT:

Applet Viewer: TrafficExample

Applet

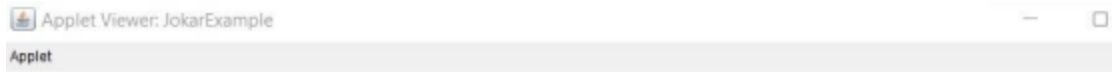


## PART: 03 JOKER

```
import java.applet.Applet;
import java.awt.Graphics;
import java.awt.*;
public class JokarExample extends Applet {
    public void paint(Graphics g) { //MAIN CIRCLE
        g.setColor(Color.red);
        g.drawOval(300, 300, 600, 450);
        g.fillOval(300, 300, 600, 450);
        //FIRST EYE
        g.setColor(Color.yellow);
        g.drawOval(430, 380, 80, 80);
        g.fillOval(430, 380, 80, 80);
        //SECOND EYE
        g.setColor(Color.yellow);
        g.drawOval(700, 380, 80, 80);
        g.fillOval(700, 380, 80, 80);
        //MOUTH
        g.setColor(Color.yellow);
        g.drawOval(500, 550, 200, 50);
        g.fillOval(500, 550, 200, 50);
        //HAIR
        g.setColor(Color.black);
        g.drawOval(550, 280, 200, 50);
        g.fillOval(550, 280, 200, 50);
        /*
        //LEFT EARS
        g.setColor(Color.yellow);
        g.drawOval(500,550,200,50);
        g.fillOval(500,550,200,50);
        //RIGHT EARS
        g.setColor(Color.yellow);
        g.drawOval(500,550,200,50);
        g.fillOval(500,550,200,50);
        */
    }
}
/*
<applet code="JokarExample" width="1000" height="1000">
</applet>
*/
```

---

# OUTPUT:



---

**CONCLUSION:** In this experiment, we see the different classes of the applet and successfully perform the Experiment.

---