# **ASSIGNMENT-1**

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SUBJECT-COMPUTER
GRAPHICS(Assignment-1)
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in

### Test.java-

```
/*This is the program for zoom-out and zoom-in using graphics */
/*Thus program can run only on Java-jdk(8) */
import java.applet.*;
import java.awt.*;
import java.awt.event.*;

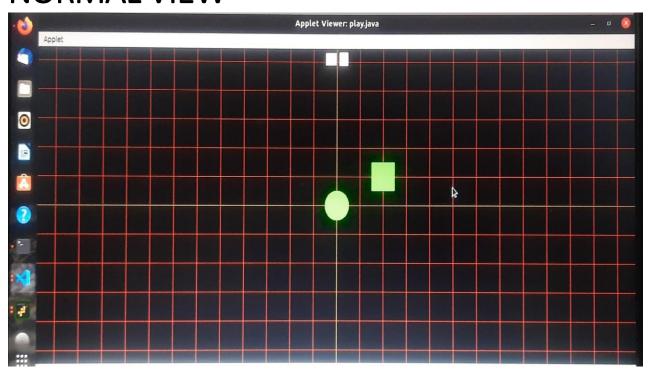
public class play extends Applet implements
ActionListener, MouseWheelListener{
    //It is for generating a rectangle corresponding to a particular
point in cartesian coordinate system
    public void plotPoint(Graphics g,int x,int y,Color c)
    {
        g.setColor(c);
        g.fillRect(x-gap/2,y-gap/2,gap,gap);
    }
    //It is for initialisation purpose
    public void init() {
        addMouseWheelListener(this);
        button1 = new Button("+");
        add(button1);
        button1.addActionListener(this);
        button2 = new Button("-");
```

```
add(button2);
        button1.setBackground(Color.white);
        button2.setBackground(Color.white);
        button2.addActionListener(this);
        setForeground(Color.green);
        setBackground(Color.black);
    public void actionPerformed(ActionEvent e)
        if (e.getSource() == button1) {
        gap+=gap+gap/10;
         repaint();
        else if(e.getSource() == button2)
             gap-=gap/10;
             repaint();
    public void mouseWheelMoved(MouseWheelEvent e)
        int z=e.getWheelRotation();
        repaint();
    Button button1, button2;
    public void paintGrid(Graphics g,int gap,int originx,int originy)
        for(int i = gap;i<=getWidth();i+=gap)</pre>
            g.drawLine(originx+i, originy-getHeight()/2, originx+i,
originy+getHeight()/2);
            g.drawLine(originx-i, originy-getHeight()/2, originx-i,
originy+getHeight()/2);
        for(int i = gap;i<=getHeight();i+=gap)</pre>
            g.drawLine(originx-getWidth()/2, originy+i,
originx+getWidth()/2, originy+i);
            g.drawLine(originx-getWidth()/2, originy-i,
originx+getWidth()/2, originy-i);
```

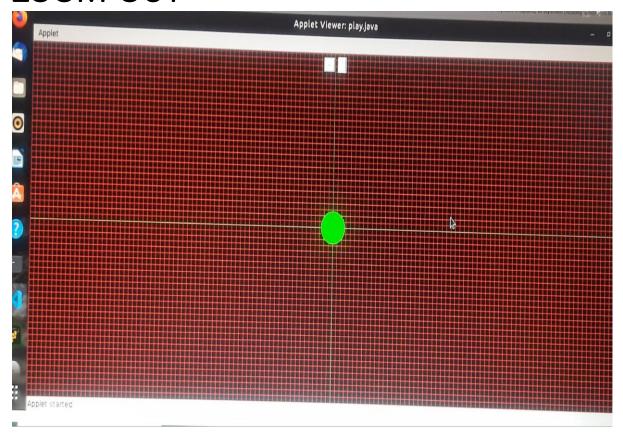
#### Test.html-

#### **APPLET VIEW-**

## **NORMAL VIEW-**



## **ZOOM-OUT->**



# ZOOM-IN->

