**Assignment no: 07**

**//Write a program in Java/ Python to draw a line with line style (Thick, Thin, Dotted).**  
  
**for Java Installation type:**  
  
$ sudo apt-get install openjdk-7-jdk **......................................................................................................**

import java.awt.\*;

import javax.swing.\*;

public class Lines extends JFrame{

public Lines(){

super("Line Styles");

setSize(400,400);

setVisible(true);

}

Stroke[] linestyles=new Stroke[]{

new BasicStroke(1.0f, BasicStroke.CAP\_BUTT, BasicStroke.JOIN\_BEVEL),

new BasicStroke(25.0f, BasicStroke.CAP\_SQUARE, BasicStroke.JOIN\_MITER),

new BasicStroke(1.0f, BasicStroke.CAP\_ROUND, BasicStroke.JOIN\_ROUND),};

Stroke thindashed=new BasicStroke(2.0f,BasicStroke.CAP\_BUTT,BasicStroke.JOIN\_BEVEL,1.0f, new float[] {8.0f,3.0f,2.0f,3.0f},0.0f);

final static float dash1[]={10.0f};

final static BasicStroke dashed =new BasicStroke(1.0f, BasicStroke.CAP\_BUTT,BasicStroke.JOIN\_MITER, 10.0f, dash1, 0.0f);

final static float thick1[]={10.0f};

final static BasicStroke thickdash =new BasicStroke(10.0f, BasicStroke.CAP\_BUTT,BasicStroke.JOIN\_MITER, 10.0f, thick1, 0.0f);

public void paint(Graphics g){

int xpoints[]={220,350,350,220};

int ypoints[]={220,220,320,320};

int npoints=4;

int xpoints1[]={60,120,180};

int ypoints1[]={320,220,320};

int npoints1=3;

Graphics2D g2d = (Graphics2D) g;

super.paint(g);

((Graphics2D)g).setStroke(dashed);

g.setColor(Color.red);

g2d.drawLine(50,50,200,50);

g2d.setColor(Color.black);

g.drawString("Dashed Line", 210,55);

((Graphics2D)g).setStroke(thindashed);

g.setColor(Color.blue);

g2d.drawLine(50,90,200,90);

g2d.setColor(Color.black);

g.drawString("Thin Dashed Line", 210,95);

((Graphics2D)g).setStroke(thickdash);

g.setColor(Color.green);

g2d.drawLine(50,130,200,130);

g2d.setColor(Color.black);

g.drawString("Thick Dashed Line", 210,135);

((Graphics2D)g).setStroke(linestyles[0]);

g.setColor(Color.red);

g2d.drawLine(50,170,200,170);

g2d.setColor(Color.black);

g.drawString("Line", 210,175);

}

public static void main(String[] args){

Lines application = new Lines();

application.setDefaultCloseOperation(JFrame.EXIT\_ON\_CLOSE);

}

}