\*/CG PRAC 1 \*/

import java.awt.\*;

import java .applet.\*;

import java.io.\*;

import java.util.\*;

/\*<applet code="DDA.class" height=700 width=1000> </applet>\*/

public class DDA extends Applet

{

Scanner sc=new Scanner(System.in);

double x1,y1,x2,y2,dx,dy,x,y,i,L;

int f=0;

public void init()

{

System.out.println("Enter initial point coordinate of line"+(f+1));

x1=sc.nextInt();

y1=sc.nextInt();

System.out.println("Enter end point coordinate of line"+(f+1));

x2=sc.nextInt();

y2=sc.nextInt();

f++;

}

public void paint(Graphics g)

{

while(f<7)

{

dx=x2-x1;

dy=y2-y1;

if(dx>=dy)

L=dx;

else

L=dy;

dx=(dx/L);

dy=(dy/L);

x=x1+dx;

y=y1+dy;

i=1;

while(i!=L)

{

g.drawLine((int)x,(int)y,(int)x,(int)y);

x=x+dx;

y=y+dy;

i=i+1;

}

if(f<6)

init();

}

}

}

/\*

OUTPUT:

D:\>javac DDA.java

D:\>appletviewer DDA.java

Enter initial point coordinate of line1

200

29

Enter end point coordinate of line1

40

189

Enter initial point coordinate of line2

200

29

Enter end point coordinate of line2

360

189

Enter initial point coordinate of line3

40

189

Enter end point coordinate of line3

360

189

Enter initial point coordinate of line4

40

80

Enter end point coordinate of line4

200

240

Enter initial point coordinate of line5

360

80

Enter end point coordinate of line5

200

240

Enter initial point coordinate of line6

40

80

Enter end point coordinate of line6

360

80

\*/

