SAP ID:60004140008

#include <stdio.h>

#include <conio.h>

#include <graphics.h>

#include <math.h>

#include <dos.h>

void main()

{

int gd=DETECT,gm;

float x1d,y1d,a,a1,xp,yp,x2d,y2d,x1,y1,x2,y2,tx,ty,x1d1,x2d2,y1d1,y2d2;

detectgraph(&gd,&gm);

initgraph(&gd,&gm,"c:\\tc\\bgi");

setviewport(300,225,300,300,0);

line(0,0,400,0);

line(0,0,0,400);

line(0,-400,0,0);

line(-400,0,0,0);

printf("Enter the co-ordinates\t");

scanf("%f %f %f %f",&x1,&y1,&x2,&y2);

printf("Enter the arbitary point");

scanf("%f %f",&xp,&yp);

x1d=x1-xp;

y1d=y1-yp;

x2d=x2-xp;

y2d=y2-yp;

printf("nEnter the angle");

scanf("%f",&a);

setcolor(4);

line(x1,y1,x2,y2);

delay(100);

getch();

setcolor(5);

line(x1d,y1d,x2d,y2d);

delay(100);

getch();

a1=(a\*3.14)/180;

x1d1=x1d\*cos(a1)-y1d\*sin(a1);

y1d1=x1d\*sin(a1)+y1d\*cos(a1);

x2d2=x2d\*cos(a1)-y2d\*sin(a1);

y2d2=x2d\*sin(a1)+y2d\*cos(a1);

setcolor(8);

getch();

line(x1d1,y1d1,x2d2,y2d2);

delay(100);

x1d=x1d1+xp;

y1d=y1d1+yp;

x2d=x2d2+xp;

y2d=y2d2+yp;

setcolor(10);

getch();

line(x1d,y1d,x2d,y2d);

delay(100);

getch();

closegraph();

}

Output:

