SAP ID: 60004140018

#include<stdio.h>

#include<conio.h>

#include<graphics.h>

void main()

{

int gd=DETECT,gm;

int r,pk,x0,y0,a,b;

initgraph(&gd,&gm,"");

line(300,0,300,500);

line(0,230,700,230);

printf("Enter the radius:");

scanf("%d",&r);

a=300;

b=230;

pk=1-r;

x0=0;

y0=r;

do

{

if(pk<0)

{

x0=x0+1;

pk=pk+2\*x0;

}

else

{

x0=x0+1;

y0=y0-1;

pk=pk+2\*x0-2\*y0+1;

}

putpixel(x0+a,b-y0,WHITE); //x,y

putpixel(a+y0,b-x0,WHITE); //y,x

putpixel(a-y0,b-x0,WHITE); //-y,x

putpixel(a+x0,b+y0,WHITE); //x,-y

putpixel(a-x0,b+y0,WHITE); //-x,-y

putpixel(a-y0,b+x0,WHITE); //-y,-x

putpixel(a+y0,b+x0,WHITE); //y,-x

putpixel(a-x0,b-y0,WHITE); //-x,y

}while(x0<=y0);

getch();

closegraph();

}

OUTPUT

