```
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#include<stdio.h>
#include<graphics.h>
#include<math.h>
#include<conio.h>
float round(float a);
void symmetry(int,int,int,int);
void main()
{
int qd=DETECT,qm;
int x1, y1, r, P, k;
float x, y, z;
printf("Enter x,y: ");
scanf("%d%d", &x1, &y1);
printf("Enter radius of circle: ");
scanf("%d",&r);
initgraph(&gd,&gm,"c:\\turboC3\\BGI");
y=r;
P=1-r;
symmetry(x, y, x1, y1);
for (x=0; x \le y; x++)
 if(P<0)
  P=P+2*(x+3);
  y=y;
 else
  P=P+(2*x-2*y+5);
  y=y-1;
 symmetry(x,y,x1,y1);
outtextxy(200,20, "Midpoint Circle Drawing Algorithm");
getch();
closegraph();
void symmetry(int x,int y,int x1,int y1)
putpixel(x1+x,y1-y,WHITE);
delay(50);
putpixel(x1+y,y1-x,WHITE);
delay(50);
putpixel(x1+y, y1+x, WHITE);
delay(50);
putpixel(x1+x,y1+y,WHITE);
```

```
delay(50);
putpixel(x1-x,y1-y,WHITE);
delay(50);
putpixel(x1-y,y1-x,WHITE);
delay(50);
putpixel(x1-x,y1+y,WHITE);
delay(50);
putpixel(x1-x,y1+y,WHITE);
delay(50);
}
```

## Midpoint Circle Drawing Algorithm

