

*Course title: Computer Graphics Lab*

*Course code: CSE-304*

*3<sup>rd</sup> Year 1<sup>st</sup> Semester Examination 2022*

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**Submitted to-**

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Mldpoint:

```
#include<graphics.h>
```

```
#include<math.h>
```

```
#include<stdio.h>
```

```
int main(){
```

```
    float A=300;
```

```
    float B=300;
```

```
    int Gdriver=DETECT,Gmode;
```

```
    initgraph(&Gdriver,&Gmode,"");
```

```
    float R=200;
```

```
    float x=R;
```

```
    float y=0;
```

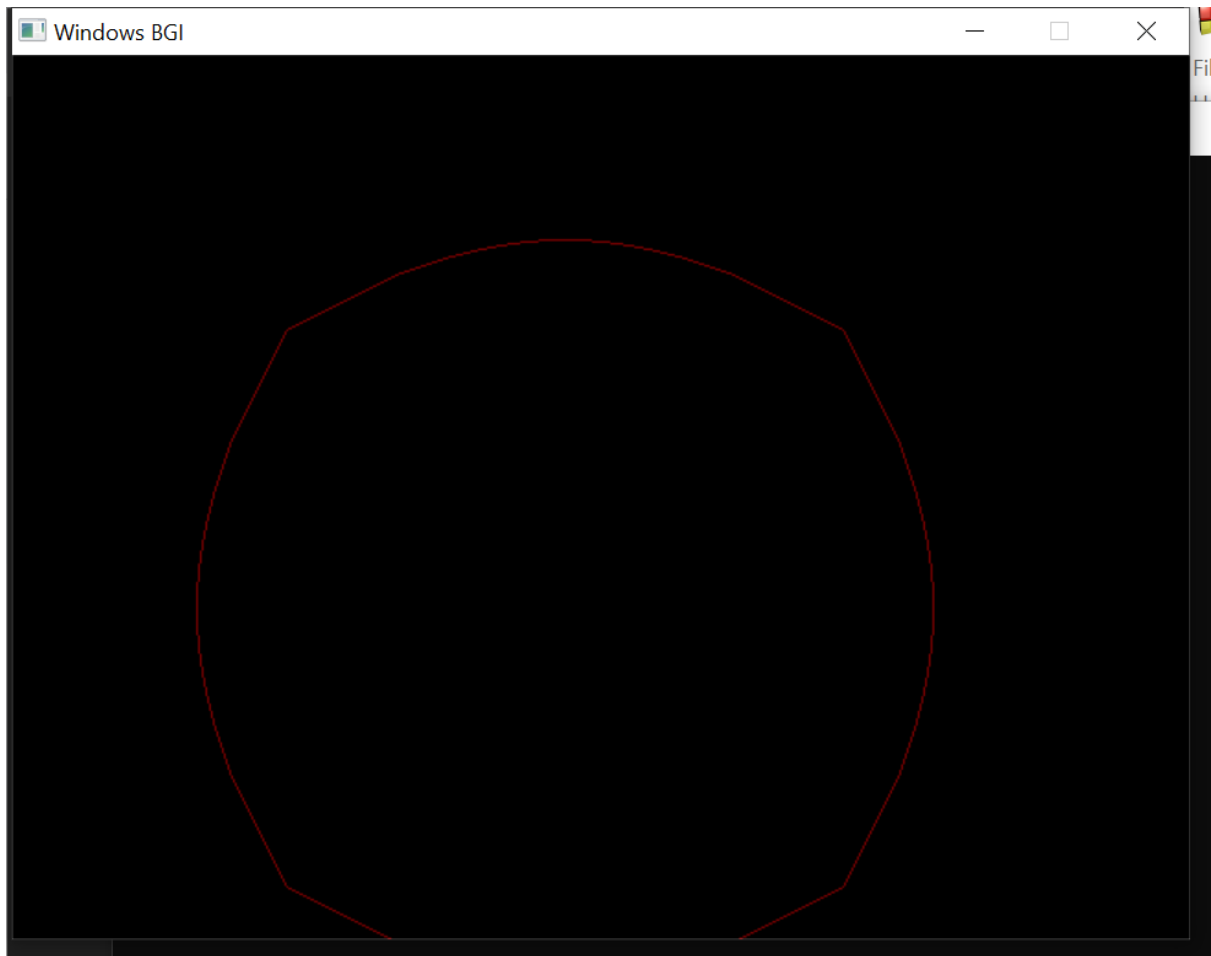
```
    float P=4.0/5.0-R;
```

```
    putpixel(0+A,R+B,RED);
```

```
putpixel(0+A,-R+B,RED);
putpixel(R+A,0+B,RED);
putpixel(A-R,0+B,RED);
while(x>y){
    y++;
    if(P<=0){
        P=P+2*y+1;
    }else{
        x--;
        P=P+2*y-2*x+1;
    }
    if(x<y)break;
    putpixel(A+x,B+y,RED);
    putpixel(A-x,B+y,RED);
    putpixel(A+x,B-y,RED);
    putpixel(A-x,B-y,RED);
    putpixel(A+y,B+x,RED);
    putpixel(A-y,B+x,RED);
    putpixel(A+y,B-x,RED);
    putpixel(A-y,B-x,RED);
}
delay(10000);
closegraph();
return 0;
```

```
}
```

## SCREENSHOT:



## ELLIPSE:

```
#include<graphics.h>
```

```
#include<iostream>
```

```
using namespace std;
```

```
int main(){
```

```
    int Gdriver=DETECT,Gmode;
```

```
    int x;scanf("%d",&x);
```

```
    int x_rad;scanf("%d",&x_rad);
```

```
    int y;scanf("%d",&y);
```

```
int y_rad;scanf("%d",&y_rad);  
int start_angle;scanf("%d",&start_angle);  
int end_angle;scanf("%d",&end_angle);  
initgraph(&Gdriver,&Gmode,"");  
ellipse(x,y,start_angle,end_angle,x_rad,y_rad);  
delay(10000);  
closegraph();  
return 0;  
}
```

#### SCREENSHOT:

