q2

Thursday, May 02, 2024 9:07 PM

2) Write a program to implement mid-point circle drawing algorithm

```
#include<iostream>
#include<graphics.h>
#include<conio.h>
#include<math.h>
using namespace std;
```

```
void plotpoints(int x, int y,int *p){
   putpixel(x+p[0],getmaxy()-(y+p[1]),255);\\
   putpixel(y+p[0],getmaxy()-(x+p[1]),255);\\
   putpixel(y+p[0],getmaxy()-(-x+p[1]),255);\\
   putpixel(x+p[0],getmaxy()-(-y+p[1]),255);\\
   putpixel(-x+p[0],getmaxy()-(-y+p[1]),255);\\
   putpixel(-y+p[0],getmaxy()-(-x+p[1]),255);\\
   putpixel(-y+p[0],getmaxy()-(x+p[1]),255);\\
   putpixel(-x+p[0],getmaxy()-(y+p[1]),255);\\
   cout << x << ", " << -y << end I;
void circle(int *p,int r){
   int x=0,y=r;
   int d=1-r;
   plotpoints(x,y,p);
   while(x<y){
     if(d <= 0){
       d=d+2*x+3;
     }
     else{
       d=d+2*(x-y)+5;
       y--;
     }
     X++;
     plotpoints(x,y,p);
  }
}
int main(){
   int gd = DETECT, gm;
   char pathtodriver[] = "";
   initgraph(&gd, &gm, pathtodriver);
   int *p=new int(2);
   int r=50;
  p[0]=100;
  p[1]=100;
   circle(p,r);
   getch();
   closegraph();
   return 0;
```

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