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//PROGRAM: To implement Bresenham's Circle Generation Algorithm
#include<iostream>
#include<graphics.h>
using namespace std;
class base //BASE CLASS START
 public:
  void display(int x, int y, int xc, int yc)
   putpixel(xc+x,yc+y,WHITE);delay(10);
   putpixel(xc+x,yc-y,WHITE);delay(10);
   putpixel(xc-x,yc+y,WHITE);delay(10);
   putpixel(xc-x,yc-y,WHITE);delay(10);
   putpixel(xc+y,yc+x,WHITE);delay(10);
   putpixel(xc+y,yc-x,WHITE);delay(10);
   putpixel(xc-y,yc+x,WHITE);delay(10);
  putpixel(xc-y,yc-x,WHITE);
};//BASE CLASS END
class pixel : public base
 public:
  void bresencircle(int xc, int yc, int r)
   int x=0, y=r;
   float dp=3-(2*r);
   putpixel(x,y,WHITE);
   while(x<=y)</pre>
    if(dp \le 0)
     {
      dp = dp + (4*x) + 6;
      X++;
    else
      dp=dp+(4*(x-y))+10;
      X++;
    display(x,y, xc, yc);
}obj;
int main()
 int xc,yc,r;
 cout<<"\n Enter the center coordinates and radius (xc,yc,r): ";</pre>
 cin>>xc>>yc>>r;
 int gd=DETECT,gm;
 initgraph(&gd,&gm, NULL);
 obj.bresencircle(xc,yc,r);
 getch();
 closegraph();
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