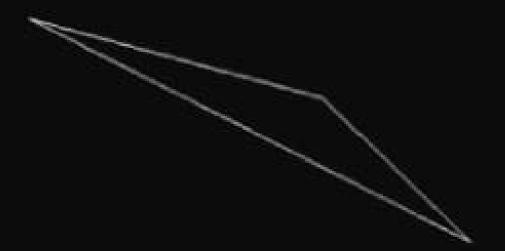
Rona Name : - Shivansh Sec :- B Course :- BCA Roll no: 1121135 (5-4) Subject: - Computer Graphics and Animation Set B #include (stdio.h) # include (conio.h) # include (graphics.h) # include < process.h> # include < math.h> int x1, y1, x2, y2, x3, y3, mx, my; () work biov Void thi (); void main () Ş int gd = DETECT, gm; int (; init graph (Lgd, Lgm, ""); paintly ("Enter 1st point for the triangle"); scanf (" % d % d", & x1, & y1); Printly (" Enter 2nd point"); Scanf (" % d % d", cx2, &y2); print ("Enter 3rd point"); scanf ("% d % d", ex3, ey3);

Short

```
Clear device ();
 draw ();
 getch ();
 tni ();
 getch ();
3
Void draw () &
 ٤
    line (x1, y1, x2, y2);
    line (x2, y2, x3, y3);
   line (x3, y3, x1, y1);
 3
Void tri ()
  Ş
   int x, y, a1, a2, a3, b1, b2, b3;
    print (" Enter transition coordinates");
   scamp (" % d % d", ax, ay);
   Clear device();
   al = x 1+x;
   b1= 91+7;
   a2 = x2 + x;
   b2 = y2+ y;
   a3 = x3 +x;
   b3 = y3 +y;
   line (ai, bi, az, bz);
   line (a2, b2, a3, b3);
   lime (a2, b2, a1, b1);
3
```

Enter the 1st point for the triangle:100 150 Enter the 2nd point for the triangle:320 210 Enter the 3rd point for the triangle:432 320







Name: Shivansh Bora Course! - BCA Sec: - B Roll no: 1121135 (5-4) Subject :- Computer Graphics and Animation. Algo_ Step 1> Start Step 2 > Declare p, q, x, y, x, d variables P, q are coordinates of the center of circle A is the radius of the circle Step 3) Enter the value of n 8tep 4) (alculate d= 3-27 Step 5-> 2 mitialize x = 0 anbsy = n Step 6 > Check if the whole circle is scan converted 2 x>= y 8700 Step 7) Plot eight points by using concepts of eight way symmetry. The center is at (p,q). putpixel (xtp, ytq) putpixel (ytp, xteq) putpixel (-y+p, x+q) Putpixel (-x+p, y+q)

Putpixel (-x+p) -y+q)
Putpixel (-y+p) -x+q)
Putpixel (y+p) -x+q)
Putpixel (y+p) -x+q)
Putpixel (x+p) -y-q)

Step 8) Find location of next pixels to be example if d < 0then d = d + 4x + 6increment x = x + 1if $d \ge 0$ then d = d + 4(x - y) + 10

increment x=x+1decrement $y=y \Rightarrow -1$

Step 9 > Go to Step 6

Step 10> Stop Algorithm.

A DESTRUCTION OF THE PROPERTY OF THE PROPERTY

89

```
bro draw
 Hinclude Lgnaphics.h>
 # include ( Stalib. h)
 #include (stdio.h)
 # include ( conio.h)
 #include (math.h)
          Eight Way Symmetric Plot (intres int ye; int x; inty)
   ٤
      Putpixed (x+xc) y+ yc) RED);
      Put pixel (x+xc) -y+yc, YELLOW);
      Potpixel (-x+xc)-y+yc, GREEN);
      Putpixel (-xtxc, ytyc, YELLOW);
      potpixel (+x+xc, x+zc, 12);
      porpixed ( y+xc)-x+jc, 14);
      Putpixed (-y +xc) -x+yc ,15);
      potpixel (-y +xc )x+ye, 6);
    Z
     Void Bresenham Circle (int xc, intyc, int n)
       int x = 0, y= x, d= 3 - (2*x);
       Eight Way Symmetric Plot (xc, yc, xi,y);
       while (x <= y)
         if (9 < =0)
```

```
d= d+ (4+x)+6;
 Q16
  5
     d=d+(4*x)-(4*y)+10;
   3= y = 1 $ 5
    \chi = \chi + 1
    Eight Way Symmetric Plot (xc, yc, x,y);
  3
3
int main (void)
  int xc, yc, n, gd = DETECT, gm, errorcode;
 initgraph (kgd, kgm, "");
  emorcode = graphresilt ();
 4 (enoncode!= gnOk)
     print (" Canaphies enon dos", graphenon my Cenonade)
     Print (" Piess any key to Stop");
     getch ();
     exit (1);
   દુ
```

S

```
Print! ("Enter the values of xc & yc");

Scan! ("% & % & "), & xc , lyc);

Print! ("Enter nadius");

Scan! ("% d", &x);

Bresenham Circle (xc, yc, x);

getch ();

Closegraph ();

return o;
```

B

Enter the values of xc and yc :100 100 Enter the value of radius :50

