NAME-SUBHAM ROUND- 1121147 SUBJECT- COMPUTER GRAPHICS SUBJECT CODE- PBC-602

Hw2

Adgosithm:

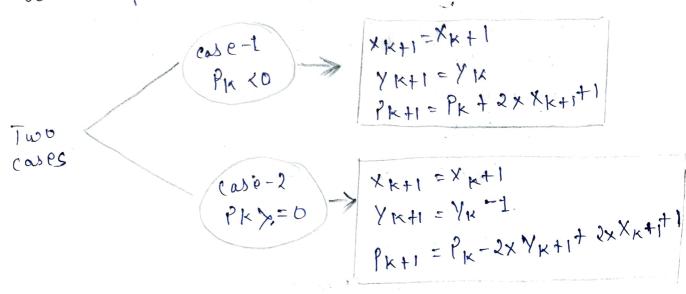
stept. Pot x=0,y=r i Assign the starting point coordinates

Step 2. Calculate the verlue of initial decision parameter Pous-

Suppose the convent point is (X1x1/x) and the next point

i (x k+11 yk+1)

Find the next point of the first octant depending on the value of decision parameter Pk.



```
Step 4. It the given centre point (xo, yo) is not (0,0), then
      do the following and polot the point-
   · x plot = Xc+ xo
    · Yalot = Yet Yo
   Here (xc, Yc) denotes the conjectualize of Land y
                  coaldinates
  step 5. keep repeating step 3 and step 4 until X prot = Yplos
 step 6. step 5 generates all the points four one octouts To find the points four other seven octouts, follow the
   eight symmetry property of circle.
    This is depicted by the following, brogman.
#tinedude Liostneum. h)
 Hincolude Zgonaphicos. h>
void draw circle lintxo, intyo, intradius
       int x = Madios;
      inty = 0;
      int eng = 0;
      while (x >= y)
  putpixed (xotx, yoty, 7);
  putpixed (xoty, yo +x, 7);
   put pixed (xo -y, yo +x, 7);
   putpixed (xo -x, yo +y, 7);
```

putpixed (xo- x, yo - y, 7);

```
putpixel (xo+), yory, 7);
if ( emy Z=0)
   y+=1;
evon+=2*y+1;
  ; f (pour > 0)
  enu= 2 * 11 +1;
 int main ()
 int g driver = DETECT, gmode, ermon, X, y, r;
  i uitgraph (& gdriver, Egmode, "'c: 11 toubo 63 11 bgi");
```

put pixel (xo-y, yo-x, 7);

potpixed (xoty, yo -x, 7);

```
cout XX" Enter Madrins of Cishle;";

cinply;;

cout XX "Enter co-ordinates of centure (x andy):";

cin >> >>>>;

drawci shele (x, y, s);

return 0;

4
```

Enter radius of circle: 100 Enter co-ordinates of center(x and y): 150 150

