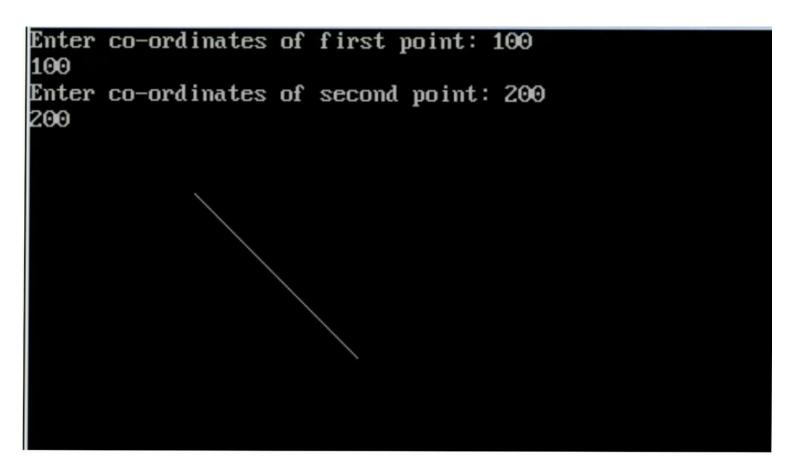
NAME VISUAL UJJWAL COURSE =) BCA (() '57) (est the) top of the party U. ROUND = 1121172 26 / 2001 - 3000 0 = 1007 M IN = 330150 W SUBJECT > CG PRACTICAL TEST 110. Pach_tack (Chr Lingae) 1.01)

```
# include < Stolio.h >
# include Egonophic. bi>
Void chaw line (int xo, int yo, int X1, inty)
  { in+dr,dy, P, N, Y;
Clu = x1 - x0;
  4=40;
 P = 2 * ay - dx;
while (nexi)
 if (P>=0)
 ¿ put pixel ( N, y, 7 );
 14-14-1900 0490
  D=P+2* dy-2*dk;
 erse product is the most of the large of
  put pixel (N,y,7)
  P = P+2 + dy;
   n = n+1;
  Prit main ()
```

```
Int g doive = DETECT, grode, emos, xo, yo, xi, yi;
       init graph ( &gdriver, & gmode, "CII torbo (31169)
        Posint F (4forter Coordinates of first Pointy);
        Scanf (4%d%d4, &40, &40);
        Printf (" finter 10-Ordinates of Record point:");
         Scanf ("%d%d4, fx, fy,);
          drawline (No, yo, MI, YI).
             returno,
ALLORITUM =
  STEP 1:
. This Algorithm is used in Computer graphic for drawing
  Line for Scan Converting a line
 STPEP -2
. Assore a pixel P. (N.191), then Select Subsequent Direk
  Either the one to its sight Clower-bound for the line
 step 4: one top its sight and up (upper bound for the line)
if S we have vi+1 = vi+1, yi+1 = 41
if Tis chosen we have Nit1 = Nit1 and yill = Yit1
STEP 6: when (s-+) <0 > SZ+ > The close + pixeliss
     when (s-+) > 0 = set
     The close+ Pixel is T
STEP7: End
```



```
Ange bring stone in the same
```

Algorithm to mid-point Circle drawing Algori

Step 1 = put N=0, y=1 in eq 0 Pi=f (Nit1, yi-1)= (Ni+1)2+(yi-1)2-82 >0

We have P=1-8

Step2: Repeat Steps while x = y

Plot (x,y)
if (P < 0)

Then Set P=P+2K+3

Else

P = P+2 (N-y)+5 y = y-1 (end if) N = N+1 (end loop)

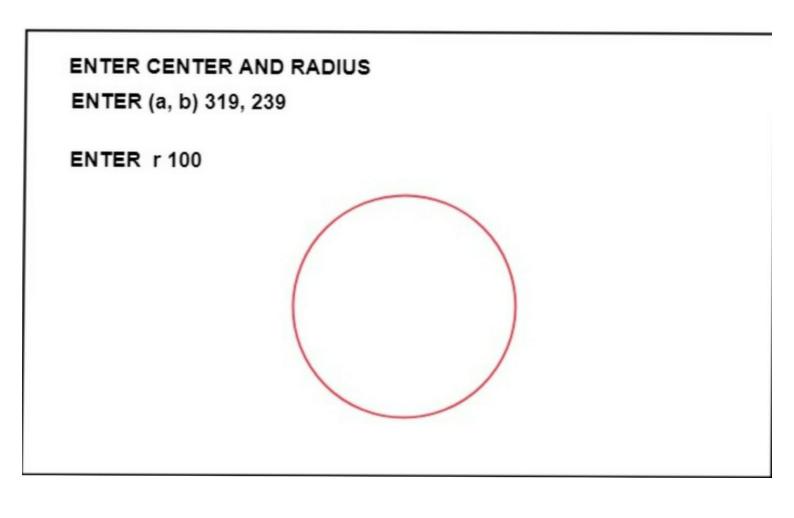
Step 3 : End

```
Algorithm

Program to implement mich-point Circle using midpoint

Algorithm
  # include 2 graphics. h>
  # include < stdlib - hs
  # include < mats. h>
  # include < comis h>
  # include cio Hacam.h >
   Class bresen
     float W, y 9 a , b , s, p;
     Public:
      void get ():
     Void Cal ();
    Void main ()
    baesen b;
  6. ge+ c):
  6. cai ().
   getCL ();
     Void bresen :: ger ()
      Cout LL 4 Enter Eenter and Radius 4.
     (out 22 4 Enter (a, 6)";
      Cin >> a >> 6
      Cout 22 4 Enter 57 4;
      Cin >> 57;
      void bresen: : cal ()
```

```
in+ gariver = DETECT, gmode, enoncode;
         int mid w, mid y , i;
     init graph ( & gebriver, & gmode, 4);
if
     (Emarcode ! = 980 +)
     Print + ( "Graphic emor: % 5 /r", graphenorm
         (erron (ode);
    Print + ( , priess any key to halt: ").
       getch ();
      eni+ (1)
     u=0;
      4= 5
 Put pires (a, 6+2, RED).
 Put pirel (a, b-r, PED);
put pirel (9-r, 6, REOD)
 Put pirel Catr, b, RED;
 P=5/4) -8;
While (xc=4)
(0>9) fi 3
  P+ = (4* 2)+6;
  else s
   P+= (2* (x-y)+s;
  3 n++;
 Put pixer (a+x, b+x, RED);
put Pixel (a-x, b+y, RED).
put Pixel ( ath , b-y, RED);
Put pirel Cath, by, REDJ;
put pires (a-N), 6+4, RED);
put pixel (a-x, b-y, RED);
```



Output of Breshnam line Drawing Algorithm:

Enter Co-ordinates of first point: 100

Enter Coordinates Of Second Point: 200 200

Output of mid point Circle Drawing Algorithm:

Enter Centurer and Radius

Enter (a,6) 319,239

Enter 51/00

