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SEM - 6: COURSE = BCA

PAPER NAME - COMPUTER GRAPHICS

PAPER COPE - PBG-602

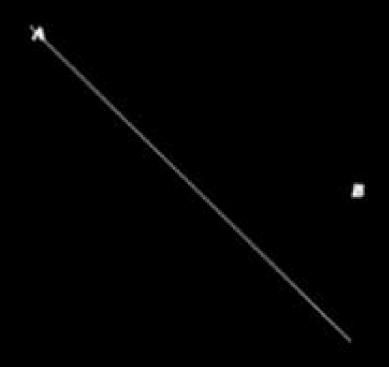
```
It include (stolio. h)
It include (graphic. 1)
 int. main()
  9nh rou (float num)
  Jetun nunco? num-0,5: num+0.6;
  Put pl=100, x2=300, y1=100, y2=200
The god = DETECT, gm;
Moat pk pkk, niy step;
For dx = n2 - n1;
in dy - 42 - 41;
 pk = 2 + dx - dy;
 of (quadd)
 step = de!
 step : dy;
 mitgraph (Eggl, lgm;").
 out text sycx T, y, "A"),
 OW test by (212, 42, "B").
 outproch (might white),
 カーメリリーり
 edile (step 70)
```

ple = pl + 2 * cly , Cloc pkk = pk + 2*dy - 2*dx; pubpixel (rou(x), rou(y), WHITE), getch (); returno;

```
Algorithm:
Step 2 = De clare vourable x1, n2, y1, y2, dr, dy in int
Stepl= start
Step 3 - Enter coordinates of ni, nz , y 1, y 2;

Step 4 - Calculate dx = n2-n1;
                     dy= 42-41,
                       pk = 2 x due-dy,
          Initialize p= plc, n=nl, y= yl
                                      while al esteps.
Step 6.) Repeat Step 7 to 14p9
        Check of pkc o then
Skp7)
             purpisel (n,y, bur)
               'n= n+1
y= y;
               pk= pk+(2*dy);
            Otheres slep 8.
             purpisel (ny sles)
 Sup 2.)
                4=4+1
                Pkt pkt (2+dy) - (2+dx).
             Incient? by on.
  step a)
 3 Lep 10)
             Stop
```





```
P2)
      # molule Lgraphic.h)
    et indude Estelio.h)
void nidpoint (int midt, int midy, int r)
      ent n=0, y=r, gd=0, gm, di, dnest;
enitgraph (dgd, dgm, "");
      while (nc=y)
       if (di >=0)
                      = di+2*(n-y)+1;
             drept = de +2*n+19
          purpirel (n+midk, y+midy, 5);
purpirel (y+midk, n+midy, 5);
          phipinda
```

purpisel (-x+midx,-y+midy, 5); putpixel (-y+ midex, -x+ midy, 5); pulpikel (-y+midk,n+midy,5); putpixel (y+ midx +x + midy, 5); putpirel (x + mide, -y + mide, 5); purphel (-x + mide, y+ mid y, 5); di= drepti, getch(); closegraph (); Ent main () mr gd=0, gm; int mid r=0, midy=0, r=0; printf ("Enter the coordinates (n,y):"), seant ("1.d", & mide, & midy), print ("Enter he raidius:"), scarf ("lod", &r); midpoint (midp, midy, r) retur 0;

```
Hlgorihm.
  Step1 - Start
 Step 2 - Plot mer center coordinates (poigo) fulliss.
        Po-0,90-7
Step 3 - Now, calculate he init decision parament
         do 21-h;
Step4. Assume nu stacky coordinates (pre 1916)
   The next coordinates will be (peti 19km)

that he next point of the first octant according to de.
 Stepr- follows these 2 cases
                            Carl 2 - if dr>=0, han
 Cases 1: y dx co her
                            PKt1 = PKt1
   PK+1=PK+1
                           9k+1 = 9k-1
   gull = ge
                           dk ti = dk - 2 (queti +2 pk+1 +1)
   desc = de + 2 Pk+1 +1
Step 6- y center not (0,0) points will be
       x coordinates = no + po
       y coordinater = 4c+90
       - Repeat Step 5 BG will nizy
Step 8. Stop.
```

enter the coordinates(x,y):200 300 enter the radius:90

