Q-3-> Write and algorithm and program to implement Bresenham circle drawing algorithm. Algarithm. If d<=0, then NX+1, YX+1, Y is to be chosen as next fixel. If d>0, then SX+1, Y-1X, Y-1 is to be chosen as the next pixel. istep: 1: Get the coordinates of the center of the circle and radius, and store them in x, y, and R respectively. set P=0 and Q=R. Dtep-2: set decision parameter D=3-2R. Dteb-3: Repeat through step-8 while P < Q. step-4: Call Draw Circle X,Y, P, QX, Y, P, Q. Step-5: Increment the value of P. step-6: 4 + D<0 then D= D+4P+6. \$tep-7: Else Set R= R-1, D=D+4P-QP-Q+10. \$tep-8: Call Draw Circle X,Y,P,QX,Y,P,Q

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# include < stdio. h>
#include < graphics. h>
void main ()
  int gd = DETECT, gm;
  int 1,00,4, p,000 = 320, 40 = 240;
print ("Enter the addius");
   scanf ("/.d", fse);
initgraph (fgd, fgm, "");
   X20;
   y=9;
   put pixel (xc+x, yc-y,1);
   $ = 3 - (a* su);
   for (x 20; x<= y;x++)
     § if (p<0)
        g-2y;
          β=(p+(4*x)+6);
            4=4-1;
           p=p+(14*(x-y)+10));
            putpixel (xc+x,yc-y,1);
putpixel (xc-x,yc-y,2);
```

puthixel(xc+x,yc+y,3); putfixel (xc+x, yc+y,4); puthixel (xc+y, yc-x, 5); putpixel (xc-y, yc-x, 6); puthicel (ac+y, yc+x, 7); huthiscel (scc-y, yc+x, 8); getch(); closegraph();

