Name - Garima Risht

university rollno-1121049

Subject - computer Graphi's fractical

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92 Algorithm of midpoint vircle.

Step-01: Assign the starting point coordinates
(x0,40) as.

· X0=0

Step-02:- Calculate the value of initial disicion Parameter Po as -

PO=1-R.

Step-03 5-

Suppose the current point is (XK, YK) and the next point is (XK+1, YK).

find the next point of the first actant depending on the value of desicion parameter Pk.

Follow below Two cases: $X_{K+1} = X_{K} + 1$ $Y_{K+1} = Y_{K}$ $Y_{K+1} = Y_{K} + 1$ $Y_{K+1} = Y_{K} - 1$ $Y_{K+1} = Y_{K} - 1$

Step-04.

If the given centre point (x0, y0) is not (0,0) then,

· x p1 at = x c + x 6

" Yplat = Y a + Y6,

Here (XC14c) denotes current, value of x and
4 coordinates.

Step-05. keep repeating step 03 and Step-04 until X plat > = 4 plat.

Step-06%-

Step-or generales all the points for one extant to find the points for other seven extants, below the eight symmitry property of circle.