## END TERM PRACTICALS EXAM

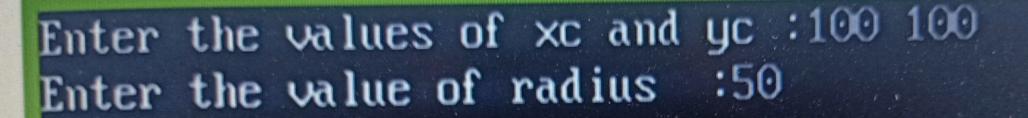
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Exan Type - Regular

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Breshnam's Circle drawing algorithm 1 # include (graphies h) (A dilbta) shulsing # # include (stdio. h) # include (corio h) # include (moth h) (y brid, x tri, 2x trie lot lint xc, int yc, int x, int y) putpixel (x+xc, y+yc, RED); Putpirul (x+xc,-y+yc, YELLOW); putpinul (-x+xc, -y+yc, GREEN); Putpinel (-x+xc, y+yc, BLACK); putpinul (y+xc, x+yc, 12) putpirul (y+xc,-x+yc,14) putpired (-y+xc,-x+yc,15) putpixel (-y+xc,x+yc,6); Void broshnom-circle ( int xc, int yc, int r) 2 int x=0, y=n, d=3-(2\*n) Symmetric Plot (xc, yc, e,x, y); while (x = y) if (d=0) 8 + (x \* x) + 6 = b

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else d = d + (4\*n) - (4\*y) +10) X = X + 1Symmetric flot (xc, yc, x, y); int main (void) int xc, yc, r, gdriver = DETECT, gmode, evrorcode; initgraph (2 gdriver, 2 gdrode" ("); errorcode = graphrusult (); if (errorcode! = grok) 2 piurth (" graphies error: 1-5 /n", grapherrorms pointf ("pruss any ky to stop"); (errorcode)); getch () printly ("Enter the value of xc and yc:"); exit (1); scarf ("1.d.1.d", bexc, 8yc); prints (" Enter the so value of radius:") scarf ("1.d", & r); Brust non-Circle (xc, yc, re); getch (); dosegraph (); return ().





Algorithm For Breshnam's Circle drawing Algorithes Step 1 - Start Stop 2 - Declare XC, yC, X, y, r, d variables Enter the value of r Sty 3 Q Colculate d = 3 - 2 × Stop 5 - Initialize X=0 ) y= Y - chuck if the whole circle is scon Step 6 converted if, x>=y Put eight points by using concepts of Stop 7 eight way syymutrig Entpired [x+xc,y+yc) Putpirul (y+xc, x+yc) Putpirul (-y+xc, x+yc) Putpinel (-x+xc, y+yc) Putpinul (-x+xc,-y+yc) Putpinul (-y+xc,-x+yc) Putpixel (y+xc,-x+yc) (x+xc,-y-yc) Putpinel Eind locations of next pinel to be Sty8 searned if d < 0 then d = d + 4x + 6

palpoint start part of the thought & if, d>0 thun d = d + 4(x-y) +10
x = x + 1 x = x + 1 y = y - 1Step-9 Now respect go to step 6 U. C. DEXPOSITABLE TO COME Step-10 Stop