End Semester Online Examination 2021 Date
NAME: Flimanshu Singh Rawat
UNIVERSITY ROLLNO! - 1121064
SUBJECT CODE! PBC 602
SUBJECT: Computer Graphics and Animation
DATE: 26/06/2021
FATHERS NAME: - Mr. Dalbir Singh Rangat.
COURSE: BCA.
SEMESTER: 6'

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Anss:-			
Algon	thm:	la, sa e na e a caractería	
0-	to be the state		
Step1:- St	art	*1	
Step 2: - 2)	eclarte variable	2, 12, 4, 42, d,	i, i2, dx, dy
Step 3: - E	nter value of xi,	Y1, X2, Y2	<i>.</i>
Step4: - C	alculate eln=?	$\chi_2 - \chi_1$	
L.	alculate dy = 42	-72	
	lculate i = 2x	dy	
C	alculated 21,-	dn.	La care
Step 5! - Le	msider (x, y) a	s starting poin	trand Xend
as moni	mum possible	Value of n	
	f dn < 0		
	Then X ZX2	-	
	y = 42		
	Yendz Xx		No.
	if dn >0	Mile and Marie	
	Then XZX1	The second	notes
	y= Y1	· · · · · · · · · · · · · · · · · · ·	
	Xend = 27	<u> </u>	
Step6: - C	renerate point	yt (x, y) lo-00	dinates.
Step 7: - 4	check if whol	e line is gen	prated
	if n> z Xend		
3	<i>b</i> .		
Step8:-1	alculate co-o	eclinates of the	e news pinel
# section 2	if d(0		
	Then dzd+	-1,	
	if-d>0		
	Then dza	1+12	
	increme	nty= y+1	PE
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Step 9: - Inexement x = 21+1. Step 10: - Draw a print of latest (21, y) co-ordinates. Step 11: - Go to Step 7
84h 10'- Dran a print of latest (x, y) co-ordinates
Step 11' - Gro to Step 7
Step 12! - Enel.
Privegram:
#include < stdio.h>
#include. < graphics. h>
# include. < graphics. h> Void drawline ( int xo, int Yo, int xy, int Yz)
The state of the Late of the second and the state of the second and the second an
int dn, dy, P, r, y;
eln= x1-no;
dy = 71-70;
$X = X_0$ ;
7270;
Pz 2x dy-dr,
P= 2& dy-dn; While CN(NI)
4f(P>=0)
< putpinel (x, y, 7);
y = y = 1;
P=P+2* dy-2*dn;
else
s putpixel (x,y,7);
pzp+2xdy;
N z N+1
Z Taranta and the same and the
) Al
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Data
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intmainco
1
intad=DFTF-CT am X V V. Y.
init walkh. (bad. lam "").
int gel= DETECT, gm, Xo, Yo, Xs, Y1; init graph (Logd, Lgm, ""); Xo = 100;
y = 100°;
×, = 300;
Y = 200'
7, = 200; drawline (Xo, Yo, X1, Y1);
returno;
<b>&gt;</b>
GA.

Enter co-ordinates of first point: 100 100 Enter co-ordinates of second point: 200 200