Expt. No	Date. 9/3/19
	Page No
Practical -	3
Bresenham Mid-point inde Algo	-sithm -
Procedure circle Midpoint (xcents	
Procedure plotpoints;	
beglin	
Setpixel (xuentre	tx, yeentre ty, 1)
Setpixel (xcentre	-x, ycentre ty, 1) -tx, ycentre -y, 1)
Setpixe (nuntre	-x, ycent-re-y, 1)
Setpixel Cruentie	ty, yentre tx, i)
Sethixel Cxcentry	ie ty, yutte - x, 1)
Setpixel (xcenti	e-y, yeetre-x,1)
ehd.;	
begin x:0;	
y; = radius;	
P: = 1 - radius:	
while (x <y) do<="" td=""><td></td></y)>	
begih	
if P<0 theh	
else	
	Teacher's Signature

_		Date
Expt	No	Page No
	begin	
	x:=x+1;	
	y: = y+1;	
	chd	
	if Pco theh	
	P:= P+ 2x+3 else	
	P:= P+2 * (x-y) +5 plotpoints;	
The state of the s	end end	
THE STATE OF THE S	end;	
	,	
- * *		
	•	
		•
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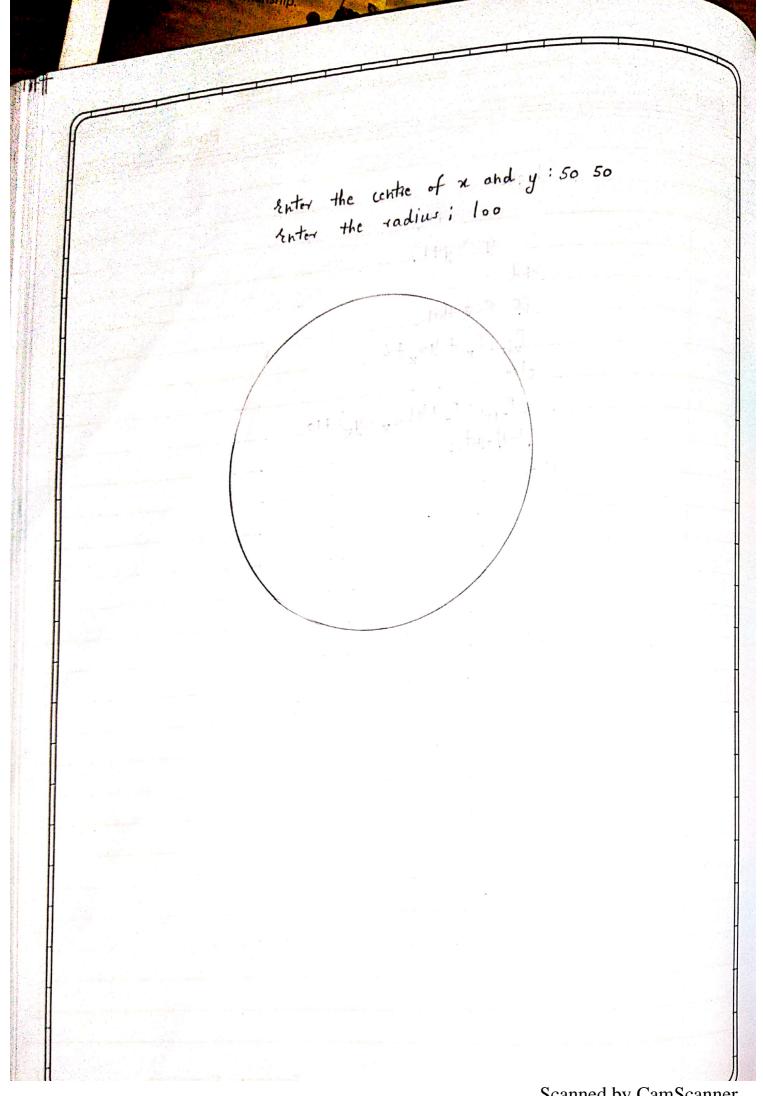
Enter the centre of x and y: 150 150 Enter the radius: 100

Expt. No.	Date
Objective - Program to implement Breschhan Algorithm	m Mid-point ciacle
# include < stdio . h > # include < (onio . h >	
# include < graphics. h> Void midpoint Lint xcentre, int ycentre,	int radius)
int b, x, y;	
y = radius; b = 1 - radius; do	
ε if (p<0)	
ε x=x+1; p=p+2*x+3;	
else	
ε κ = κ+1;	
y=y-1; p=p+2*x-2*y+5;	
J	
Te	eacher's Signature

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putpixel (xcentre + x, y	(centre ty, 15);
putpixel (xcentre - x, y	centre +y, 15);
putpixel (xcentre +x, y	centre - y, 15);
putpixel (xuentre - x,	ycentre - y, 15);
putpixel (xcentre ty,	yentre + x, 15);
putpixel (xientre-y,	yuntre +x, 15);
putpixel (xuentre +x,	ycentre -x, 15);
putpixel (xuentre -y,	ycentre-x, 15);
3 while (xcy);	
3	
int main()	
٤	
int gd = DETECT, gm =	
int xuentre ycentre,	
printf C"Inter centre	
	, Arcentre, dycentre, Bradius);
initgraph (ågd, ågm,	"C: NTURBOC3 NBLI");
midpoint (xuentre, yeer	rtre, radius);
getch ();	
closegsaphi);	
3	
	,
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Expt. No.	Page No
Practical - 4	
Bresenham Circle Algorithm	
Procedure circle Midpoint Cacel	ntre, ycentre, radius : int)
VQ-6	
P, x, y: integer	
Procedure plotpoints;	
begih	
Setpixel (xcentre + x, y	
Setpixel (nuntre - n, ye	
setpixel (xuentre tx, y	
Setpixel (xuentre -x, y)	centre -y 1)
Setpixel Cxuentrety, y	centre tx 1)
Setpixel Cruentie - y	ycentre tx, 1)
Setpixel Lauentrety,	
Setpixel (xuentre-y, y	centre -x, 1)
ehd;	
begin x:0;	
y: nadius;	
plotpoints;	
while (x< y) do	
begih	· · · · · · · · · · · · · · · · · · ·
if Pco theh	
x;x+1;	*
else	

Expt. No.	Date
-Apt. NO	Page No
begin	
x; = x+	1 ;
y: = y+	1;
ehd	
if P<0 the	h
P:= P + L	1x, +6
else	K .
•	+4(xx - yx) +10
plotpoints;	
ehd.	
ehd;	
	·
	Teacher's Signature



Evnt		Date
Expt.	No	Page No
	Objective - Program to implement Bre	esepham (irde Algorithm
	#include <stdio.h></stdio.h>	
	#include < graphics. h>	
	# include < conio. h>	1 : Leadine)
	Void midpoint (int xcentre, int y	centre, Int ramo,
	int p, x, y;	
	x=0.	
	y = radius;	
	b=3-2* radius;	
	٤.	
	if (p<0)	
-		
	x=x+1;	·
	p = p+4 * x+6;	
	3	·
	else E	
	χ = χ+1 ',	
	y = y - 1;	
	b=b+4*x-4*y+10;	
	3	
		,
		Teacher's Signature