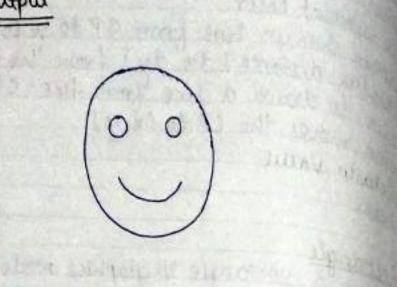
Output



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Expt. No L Page No 10	-]
Experiment -2	
Aim: (200 draw smiley face using functions	
# include < stdin . h>	
# include < conio.h>	
# include < graphics. h>	
Void main (){	
int gariver = DETECT, grade;	
int graph 12 godiver, & & made, "C: "TURBOC3	118
CHCLE (100, 100, 50);	
Cixcle (80,90,10);	
ciacle (120,90,10);	
circle (100, 107, 3);	_
anc (100,120, 200, 340, 10);	_
getch();	
2 . Closegraph();	-
	-
	-
	-
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Output

ELLIPSE Using Graphics in c

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Expt. No.	Date
	Page No.
Expa	uiment (2b)
Aim: To desaw a ellip	se turing
# Include attaio.n>	
# loclude Solaphies hs	W / North Control
# include comio.hz	
	magai /
int main ():{	
int gd = DETECT,	gm;
unt x u	
initerach (lod.	&gm, "X: \\ TC\ BGT");
x = getmaxx E/2	0 , , ,
y = germany ()12	
Outsteatry (2-10	0, 50, " EILIPSE Using Graphic
ellipse (2, y, 0,	\$10 120 CO);
antept).	360,120,60);
getch(); closograph(); retwin 0;	
motions 0:	
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() newscarp,

Experiment (ac) Aim: To draw a heart # include < constroam b> # include < graphics, hz # Include < do. b> void main() int gd = DETECT, gm; initgraph (ligd, ligm, "C:11tc \\bgi"); Cleanderice (); for (entit=1; i <= 50; 1++) int b=1; while (!kbn/()) for (Int i=1; i<= 20; i++) Setterstyle (3,0,5); outlextry (270,230, "Param"); anc (355, 250, 700, 500, 50); line (320, 350, 235, 270); line (320, 350, 400, 270); b++; delay (8); cleardence ();

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if (b== 70)

S

break;

Page No.

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A 01-11 5 that miles 1 Committee on the state of the country of Constant Balls Sidney & Market L' MOSE

Date _ Expt. No. ___3 Page No. 11 Experiment - 3 Aim: To draw a car using functions #include sstdin h> # include < conio. h? Hindude Sgaphics. hz # include cdas. hz void main () int gardiner = DETECT, gmode; init, graph (& gothiver, & gmode, "C: 11 TURBOCS (1891); for (i=0; i<600; i+=10) Cleanderice (); Line (100+i, 170, 100+i, 100); line (100+i, 100, 170+i, 100); line (170+i, 100, 220+i, 50); line (220+i, 50, 310+i, 50); line (340+i,500,370+i,100); line (340 ti; 100, 440 ti, 150); line (440+i, 100, 440+i, 1701; cierde (200+i, 170,30): cincle (330+i, 170, 30); line (100+1, 170, 170+1, 170); line (230+1, 170, 440+i, 170); line (360+1, 170, 4fo+i, 170); line (225+i, 55, 260+i, 55);

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Expt. No	Page No. 12
line (260+1, 55, 260+1, 95);	
line (2+0+i, 55, 305+i, 50):	
line (285+i, 95, 225+i, 55);	
line (105+1,95, 260+1,9+);	
line (353+i,95, 305+i,55);	
line (353+1,95, 270+1,95);	
delay (50);	
}	
getch ();	
getch (); Closeglaph ();	
<u> </u>	
THE OWNER OF THE PERSON NAMED IN COLUMN TO PERSON.	
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Experiment -4

Aim: To draw a line using DDA Algorithm

#include <stdio.b>

Include (conio h>

include cgraphics. h>

void main ()

int adviser = DETECT, grande;

initgraph (& gdriver, & gmode, "C: 1/tc1/bgi: ");
printf ("Enter first point");

scanf ("".d Y.d", & x1, & y1);

printf ("Enter second point");

scanf ("1.d", &x2, &y2);

putpixel (x, y, 7);

dx = x2-x1;

if (apr (gx) > apr (gh))

s=abl(dx);

2110

S=abs (dy);

ai = dx/s;

hi=dyls;

putpixel (x, y, 7);

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Page No. 14

tor	(K=0)	.KCS!	K++)
Vc	,	,	K++)

x=x+xi; y=y+yi; putpixel(x,y,7);

3

Expt. No.

getch (); closegeaph();

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Cutput

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

(1+3 (22) (22) (1)

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Exportment -5

Aim: To draw a line using Bresenham's Algorithm.

Include < stdio. h>

#Include < graphics.nz void drawline (intxo, intyo, intx1, inty1);

(nt dx, dy, p, x, y;

dy= y1- y0;

y= y0; p= 2* dy -dx; while (x< x1)

if (p>=0)

put pixel (x, y, 7);

p= p+2*dy-2*dx;

else

putpixel (2,1, 7); p=p+2*dy ; 3 2=2+1;

Teacher's Signature :

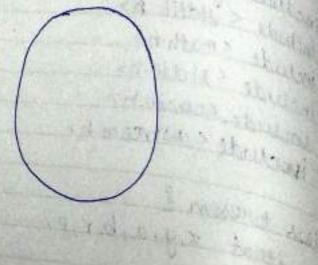
Date .		
National Control	_	

Expt. No.	Page No.
int main()	
int gaviver = Df initgraph(&gavive prinef("Enten co Scant ("-1.d /.d"	in-ordinates of second point: ");
जीधाराम,	Teacher's Signature :

	Date
Expt. No6	Page No. 2-D
Experiment	-6
dim: - WAP to implement	midpoint tircle agnoration
dim: WAP to implement algorithm of given centre	(x,y) e rodius r
# include <gsaphics.h> # include < utdlib.h></gsaphics.h>	COLUMN TO A STATE OF THE STATE
# include < istallib. h>	
# include < math.h>	
# include < station>	
# Include <conio.h></conio.h>	
# isochide < idstream.n>	
class lovesen £	
float x,y,a,b,r,p;	
public:	
	一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个
Void get ();	
₹: 	
void main () ?	
bresen b;	
b.got ();	
getch();	
Void bussen : get ()	
3	
cout "Enter centre	fradius"
Cout << " Enter (a,b)"	;
cin >7 a >> b;	
cin >7 a >> b;	Teacher's Signature :
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Output

March State Enter centre & Radius Enter (a, b) 319, 239 Ender y 100



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pt. No	Page No
cout << "Enter .	γ 1;
cim >> Y;	
}	
void brosen :: cal ()
1	
int governor =	DETECT, grande, overencode;
in mida mi	dy i:
initglaph (light	raphresust ();
evencode = q	raphnesult ();
if Covercode	1= grok)
7	
- Pount ("1)	maphics everon: "s In", grapherer
	msg (evuerce
punt Cru	ess any key to halt: ");
getch(); exit(t);	
2 exit(1);	
5	
2=0;	
9=Y;	PCN
putpixal (a, s+r	
putpixel (a, b-	Y, KED);
putpisel (a-r,	D, KED);
purpixel Ca+r, b	2, KEO);
$p = (5/4)^{-}Y;$	
while (x = y)	
{	
if (p(o)	
p+= (4* x)=	t 6;
else	
FURME	Mark Commence of the Commence
	Teacher's Signature :

Page No. 22 Expt. No. p+= (2* (x-y))+5; putpixal (a+x,b+y, putpixel(a+x,b-y, RED); putpixel (a+x, b-y, RFD); putpixel (a+x, b+y, RED); putpixel (a+x, b-y, RED); putpixel (a+x, b+y, RED); putpixel (a-x, b-y, RED); Teacher's Signature:

	Date
. No	Page No. 23
Exposi	ment-q
Aim: - WAP in c to imple Agaithm tox during	ement the ellipter generation
(x,y) & radius rx&	an ellipse of given centre
# Include a stalin ha	· ·

Include < 31 # include < conio. hz # include < glaphics. h>
include < math. h> void ellips (intx, inty)
void complete ellipse (intx, intg, int u, int v) float s, k, e,f, x;

double pl, pz;

e= (pow((st.5), 2)); f=(pow((K-1),2));

p2=((u*e)+(v*+)-(u*v));

ellips (S, K);

while (Kz=0)

Expt. No. 7

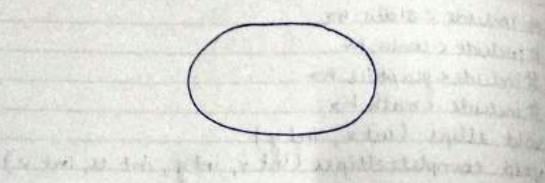
if (p220) p2=(p2+v-(2*v*5));

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Output

Enter the length of major axis: 100 enter the length of minor axis: 50

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```
pz= (pz+ (2* (*(s+1)) - (2*v*(x-())+v);
   ellips (s, k);
void main ()
   int gdriver = DETECT, gmade;
    initgraph (&gdriver, lymode, "C: 1/t c 1/bgi: ");
    printf ("In Enter the length of major
    scanf ("It%d", &a);
    print! ("In Enter the length of minor axis
    scanf (" \t "d", & b);
    2=0:
    U= pow (6,2);
     v = pou (a, 2);
     p1=(u-(V*b)+(.25*V));
     ellips (x,y);
ushile (2*(u*x)<=2*(v*y));
        if (pl<0)
         p1 = (p1 + (2*u*v)+v);
         else
                            Teacher's Signature : .
```

Expt. No.

Page No. 25

```
p1=(p1+(2*u*x)-(2*v*y)+u);
  complete ellipse (x,y,u,v);
getch();
closegraph();
void ellipse (int x, int y)
putpixel (x+200, y+200, R);

putpixel (-x+200, y+200, R);

putpixel (2+200, -y+200, R);

putpixel (-x+200, -y+200, R);
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                                                Teacher's Signature :
```

Exportment -8

dim: WAP in C po to implement 20 transformation such as translation, scaling, rotation, shearing & reflection for a given 20 object.

(a) To rotate an object about origin

#include < ios tream. h>

#include <comio, h>

#include < graphics. h>

#include cpmcess. h>

#include <math. h>

void main ()

Chrock ();

int graphduiver = DETECT, graphmode; init graph (& graphduiver, & graphmode, " 116gi);

int x, y, x1, a [37[37;

double 6[3][3], c[3][3];

cout << "In Folex 1st coordinate of triangle: ");

cin>> a[0][0] >> a[1][0];

cout << \n Enter 2nd coordinate of triangle. ");

cin>>a[0][+]>>a[1][1].

cout << "In Enter 3rd coordinate of triangle: "),

cin>>a[0][2]>> [[1][2]:

line(a [o][o], a[1][o], a[o][i], a[i][i]);

line (alo)[1], ali][1], alo][2], ali][2]); line (ato) (0], a [1) (0], a [0](2], a [1], [2]);

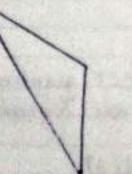
JAJAL A

lutput

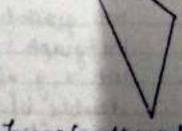
Enter 1st coordinate of triangle: 100 100
Enter 2nd coordinate of triangle: 200 100
Enter 3nd coordinate of triangle: 150 50

Enter angle of votation

Enterarge of rotation



total Truangle after votation



Juargle after rotation

```
getch ();
   cleanderice ();
  cout << "Enter angle of rotation: In";
   cin >>x:
  b[0][0] = b[1][1] = (01((x*3.14)/180);
  b [0][17 = -sin ((x * 3. (4)/180);
   b[1][0]= sin ((x * 3.19/180);
   b[2][2]=1;
   b[2][0]=b[2][1]=b[0][2]=H[][2]=0;
  for (int i=0; ic3; i++)
      for (int j=0; j<3; j++)
          (Ci)(j)=0
       $ for (int k=0; K<3; k++)
             cci7[]+= aci7[x] *b[k](j);
           x1=(c(1)())+0.5);
           aci] Ci7= x1;
cout E << "In Triangle after rotation is: \n";
line (a CO][O], a C'][O], a CO], CI], a CI]()
line (a[0][1], a[1][1], a[0][2], a[1][2]);
line (a[0][0], a[1][0], a[0][2], a[1][2]
getch ();
conegraph ();
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```

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Output

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Enter of 1st coordinates of triangle: 100

Enter and coordinates of triangle: 200

100

Enter 3 rd coordinates of triangle: 150

50

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(B) Aim: To translate an object with translation parameter in x & y directors # include < iostream. hz # include scanio h> It include < graphics, h> # include < process. h> # include (math. h> void main () Chrone); int graphoriner= DETECT, graphmode; inityraph (legoriver, legraphonode, "... " bgi"); int x, y, x1, 91,22, y2, x3, y3; cout < "Enter 1st coordinates of triangle: "cin>>x12/41; cout << "Fixer 2nd coordinates of triangle: "; cin>>x2>>y2; cout << "Enter 3rd coordinates of triangle: ; cim>> 23>> y3; cleandenice (); line (22, y2, x3, y3); line (x1, y1, 23, y3); getch(); cleanderice (); cout << "In Enter translation factors: In"; cin>>x>>y cleandenice (); 5 32 2 Teacher's Signature :

Date
Page No. 29
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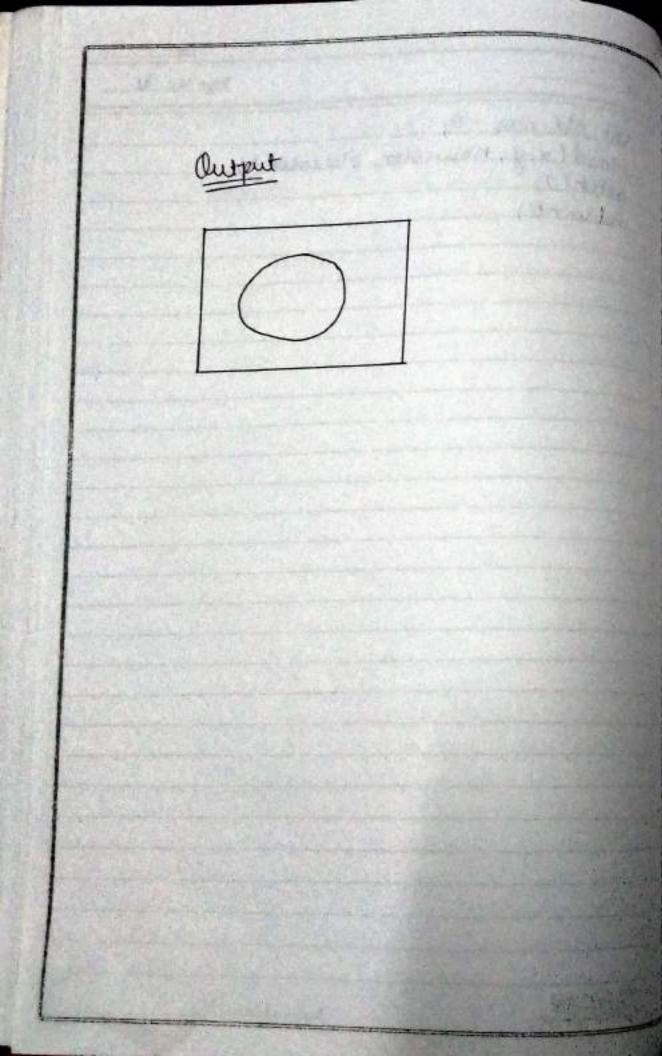
Output

	Date
Expt. No. 9	Page No3.0
Experime	int=9
Aim - WAP in to implement a rectangle with given co	flood fill algo-filling
#include < graphics. h> # include < etdio. h>	
void flood lintx, inty,	int new_col, int old_col
it (get pixel(2,y) == old_0 put pixel (x, y, ne flood (x+1, y, neu flood (x-1, y, neu	w-col); ? 2-col, old col);
Hond (x, y+1, ne flood (x, y-1, ne	un-cal, old_cal);
int main ()	
int gd.gm = DETECT; inttgraph (ligd, light, int top, right, bottor	<i>'</i> ;
top = left = 50 bottom = right = 300; rectangle, left, top, int x = 51;	right, bottom);
int y = 51; int newcoler = 12;	Teacher's Signature :

	e
Expt. No Page No	31
int oldralar = 0; flood (x, y, new color, old color); getch(); returno; }	

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ry fill	
n color	-

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Expt. No.___In

Exporiment-18

Aim: WAP in & to implement bounds algo for a filling roctangle with give

include < graphics. h > void boundary Fill + (int x, int y, int fill color, int to ou bo undary color)

if (getpixel (x,y)! = boundary color &&
get pixel (x,y)! = fill-color)

boundary Fill+ (2+1, y, fill-color, boundary-color);
boundary Fill+(2+1, fill-color, boundary-color);
boundary Fill+(2, y+1, fill-color, boundary-color);
boundary Fill+(2, y+1, fill-color, boundary-color); boundary fill + (x, y-1, fill-color, boundary copy)

int main ()

int gd = DETECT, gm; initgraph (lgd, 2 gm, ""); int a = 250, y = 200, radius = 50; Circle (x, y, radius); boundary Fill (x, y, 6, 15);

delay (10000);

closegraph U; roturn o.

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TO SECTION AND ADDRESS. Culput Enter the value of 21, y1, 22, y2:>10 Se Stall Halphade 100 100 Enter the value of 2 max, ymax, xmin, ymin 50 50 0 TOUR TOURSE BEE

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From Mr. 11	Date
Expt. No	Page No. 3.3
	EXPERIMENT=11
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7	nc to implement conen sutherland.
#include < std	10 43/
#include ccomi	W-n/2
# include < gra	dins.
# include cas	phies.hs
void storessint	1:1:1:1
Void main ()	(int, int, int, int, int, int[]);
1	
int advis	
int al «a	rer = DET ECT, gmode; , yl, y2, xmax, ymax, xmin, ymin, [10], xil, x12, yil, yi2 flog = 0;
9 [10] 1	19,42 Amax, ymax, xmin, ymin,
Hootw	[10], 711, 712, yit, yi2 flog=0;
float m inti; d	Liver CV.
orints ('output);
printf("	with the second
Scont ("	Enter the value of x1, y1, x2, y2: ");
prints ("c	(ed %d %d %d", & x1, & y1, & 22, & y2);
Stanzasia	inter the value of xmax, ymax, xmin, ymin) to (22, 42, ymin, ymax, 2 max, xmin, b); i i <= 4; i ++)
tox (i-1	is- (if the forman amax amm, b);
\$) ^1)111/
ital	i]*b[i]==0)
flag =	THE RESERVE OF THE PROPERTY OF
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2	
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```
it flag = 0;
    m=(y2-y))(x2-x1);
   if (a(1)==1)
   yil=ymax;
zil=xH((1/m)*(yil-y1));
        yil=ymin;
x11=x1+((1/m)*(y11-y1));
 it (a[3] ==1)
    xil=xmax;
    yit= y1+(m*(z11-x1));
if (a[4] == 1
xil=xmin:
                            Teacher's Signature:
```

```
yit= y1+ (m*(x11-x1));
(1==[1]0)
Ais- Awar:
xi2 = x2+(((/m)*(yi2-y2));
if (b[2]==1)
llu
yiz=ymin;
1 (b[3] == 1) * (y12-y2));
  Clouser ();
else
 212 = 2max;
y12= y2+(H/m)*(x12-22));
if (b[4] = = 1)
   X12 = xmin;
 yiz=y2+(m*(xi2-x2));
 initgraph (&gdriver, &gmode, "C://tc//bgi: ");
rectangle (xmin, ymin, xmax, ymax);
line (x1, y1, x2, y2);
delay (5000)
 15/12/20
                         Teacher's Signature:
```

```
cheregraph ;
chrocil);
initgraph (legariver, legmode, "C: 1/t (1/bgi: ");
line (2i1, y11, 2i2, y12);
rectangle (2min, ymin, 2max, ymora);
it (lag == 0)
   Printf ("In No lipping required");
getch();
closegraph();
vaid storopoints (int x1, int y1, int ymax, int xmax,
 (nt xmin, int ymin, int c[10])
if ((y1-ymax)>0)
 Clse
C[1]=0;
if ((ymin-y1)20)
C[2]=1;
 c(2) = 0
 if ((x1-2max)>0)
c[3]=1:
 else
c [3]=0;
if (Camin -x1)>0)
C[4] = 1;
 else 3 c[4]=0; 3
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                              Teacher's Signature :
```

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Page No. 37	
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at the basic transformation grant a given 30	2
idy;	
e. ILte 11 bgi	
e. 11tc 11bgi In 2. Scaling In 3. Rotation In 4.ex ice ");	£);
	No.

Expt. No. __ 12 Experiment dim: - Wal in c to implement such astronslation, scalin deject Hindude (station) # include scanio.h> # include < graphics. b> # include < math. h> void trans (); void scale(); Void Lotate (); int maxx, maxy, midx, m void main () int ch; int gd = DETECT, gm; detectgraph (&gd, &gm, initgraph (&gd, &gm, "
printf ("In 1. Translation printf ("Enter your cho

scanf ("1.d", & th);

awitch (ch)

casel: + vans ()

getch ()

Teacher's Signature:

do

	Date
Expt. No.	Page No
brook;	
casez: Scale();	
gelche;	
broak.	
(ale 3: rotate();	
getchi;	
byeak!	
(ase 4: break;	
Printf ("Inter your chair	٠٠ '١)،
Jon Kin	(e),
s while (theu).	
Total S	
- Void trans ()	
1	
int x, y, z, o, x1, x2,	.1 0.2 1
maxx = get maxx ();	1,80
maxy=get maxy();	
mid = maxx/2;	Section of the sectio
midy = maxy/2;	
bared (midx +50 mi	dy-100, midx+60, midy-90,
	10,130,
printf ("Enter transl	ation factor ").
Scant (" % od % od " lod " lod " lod " lod" lo	x & u):
prints ("After translat	Ham. ").
bar 3d (midx+ +50 m	nid x-(u+100) m/d x+80 x+60
midy-lyt9	nidy-(y+100), mld x+60 x+60, a), 10, 1);
3 0 0	
<i>निधाम्</i>	Teacher's Signature :

Expt. No. Page No. () slass bias int x, y, z, 0, x1, y1, x2, y2; maxx = getmaxx (); maxy = getmaxy (); midx = maxx /2; midy = maxy 2; bax3a (midx +50, midy -100, midx +60, midy -90, printf- ("Before translation (n"); printf ("Enter scaling factors in"); Scanf ("100 %d Tod", &x, &y, &z); printf ("After scaling in") bar3d (midx+(x * 50), midy-(y * 10), mid 2+(2*60), midy -(y +90), 5 + 2, 1); wid rotato () int x, y, z, 0, x1, x2, y1, y2; marcx = getmax (); maxy = getmaxy (); midx = maxx/2 midy = maxy /2; bar 3d (midx + 50, midy - 100, midx + 60, midy - 90, printf ("Enter rotating angle"); scanf ("4.d", bo); 21=50 * COS(0*3.14/180)-100 * sim (0*3.14/180); 41=50 * sin (0* 3.14/180)+100 * sis (0*3.4/180).

Teocher's Signature :

Paul No.	Date
Expt. No.	Page No.
printf ("After bound (mide	*3. 4/180)-90 * sin(0* 3. 14/180); 0*3. 14/180)+90 * ces(0* 3. 14/180); rotation about x axis "); x +50, midy-z1, midx +60, midy-22 5,1); ex Rotation about yaxis"); 1x+x1, midy-100, midx+x2, midy-90, 5,1);
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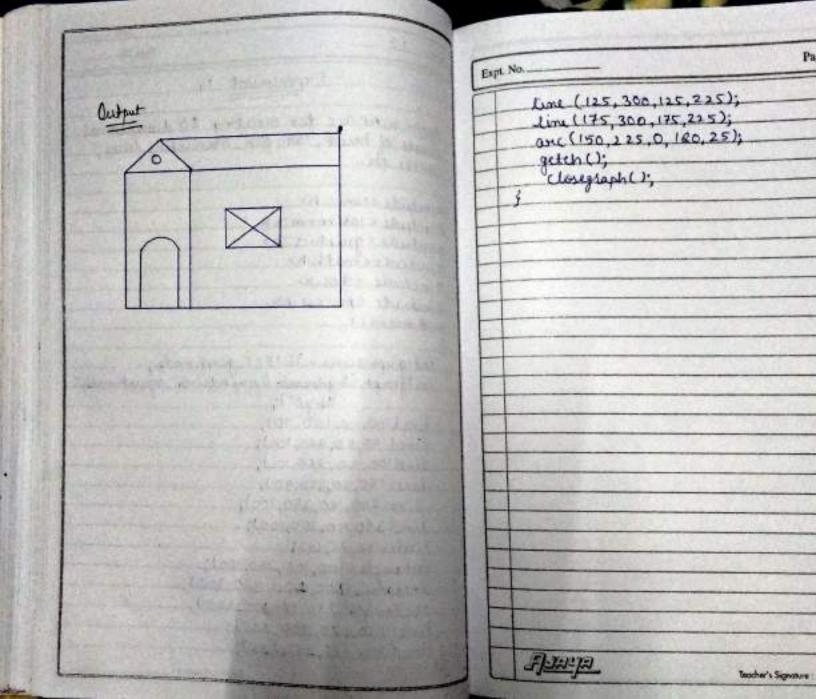
Page

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र्मियस्थि

Experiment -13 Aim: - WAP in a for areating 20 dimensional shapes of house, car, fish, man using lines, and using lines, #include <conio.h> #include < lostream. hz #include < graphics. b> #include < math. b> # include < dos. h> # include < pmress . b> void main () line (100,100, 150, 50); line (150,50,200,100); line(100, 100, 200, 100); line (150,50,350,50); line (200, 100, 350, 100); line(350,50,350,100); circle (150,75,10); rectangle (100, 100, 200, 300); Yectangle (200, 200, 350, 300); rectangle (250, 175,300, 225); line (250, 175, 300, 225); line (300, 175, 250, 225);

Teacher's Signature:



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Expt. No.	Page No
Lime (125, 300, 125, 2 Lime (175, 300, 175, 22 anc (150, 225, 0, 180, getch (); closegraph (); }	25):
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