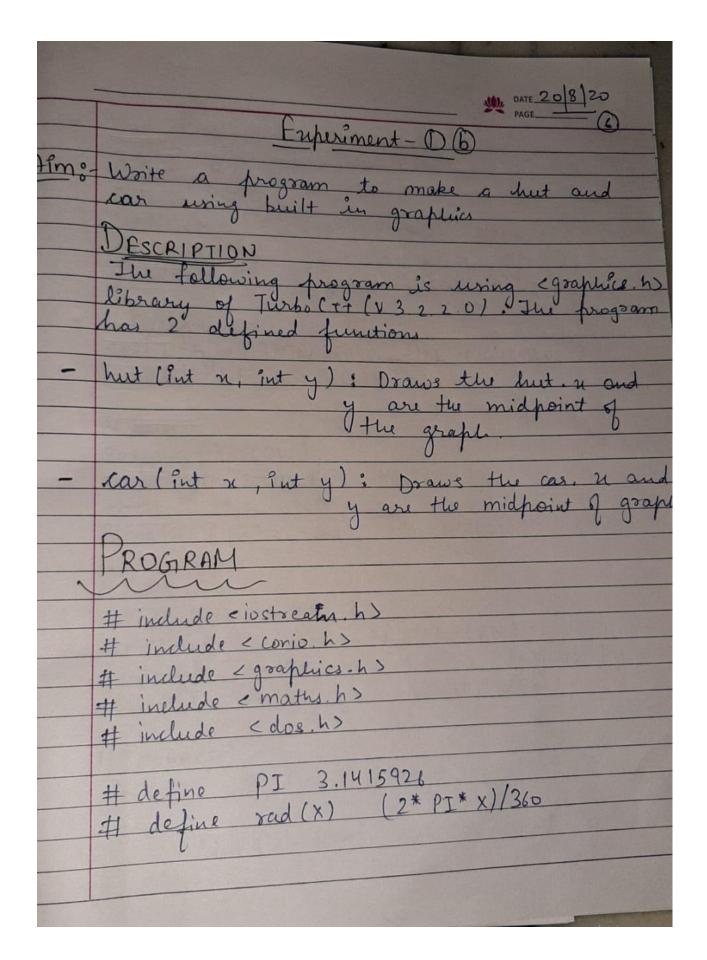
MAGE 20 8 20 uperiment - 00 Aim: To study a list of geometrical shapes you can che following is a list of functions as header file. y leading a graphics drive putting the system into also resets graphic settings has 2 parameters "gd" who drives and "gm" to be graphics drives and of what graphics mode initialised in. man: unitgraph (2gd, Lgm, "C//Tubo \$34847"

putpixel(): putpixel() function plots a pixel of location (2, y) of specific color Syntan: putpixel (int u, int y, int color); Setbkcolor(): Setbkcolor() function is used to set the background color in graphics made. In default background color is black. Syntax: void setbkcolor (int color); Setlinestyle () This function sets the style for all lines drawn by line, line to, sectlingle, draw poly and so on Syntax: void setlinestyle (int line style, unsigned) hattern , int thickness); Setcolor (): Setcolor () function is used to set the surrent drawing lolor to new color Syntax: void setcolor (int color); rectaryle(): rectaryle() is used to draw a suctangle. Coordinates of left top and right bottom corner are required to draw the nectaryle void rectargle (int left, int top, int right, int bottom); Syntax !

Symlax: int getul); gety(): gety() function returns the y coordinate Syntax: int gety (); getmand): This function returns the maximum a coordinate for current graphics made and driver Lyntax: "int getmax(); getmaxy (?: Ihis function returns the maximum y coordinate for current graphics made and driver Syntax: int getmaxy(); moveto(): moveto() function changes the position to (4,4). Syntax: Void moveto (int u, int y); setfill style (): This function sets the current fill patte

Syntax: void setfillstyle (int pattern, int color); floodfill): It is used to fill an enclosed area. Current fill pattern and fill color is used to fill the area. Syntax: void floodfill (int x, fid y, int booder - color); get color): getcolor() function seturns the current drawing color and default drawing color is Syntax: int getcolor (); get pixel(): get pixel () function vetures the color of pixel present at location (n, y) Syntox: int gethixel (int x, int y) closegraph(): Ilis function closes the graphics mode, deallocates all memory allocated by graphics system and restores the screen to the mode it was in before you called initgrap Syntax: void closegraph ();

line (): line () function is used to dre line from a point (21, 41) to point i e (21, 41) and (22, 42) are the points of the line. void circle(): circle() function draws a circle tenter at (2, y) and given radius Syntax! Void ascle (int n, int y, in radius);



```
Void hut (int 2, Put y) {
 11 Ground
  Setcolor (BROWN);
 Cettillstyle (INTERIFAVE-FILL, BROWN);
sectangle (0, 2*y-100, 2*n, 2*y);
Floodfill (1, 2*y-99, BROWN);
11 Background
Setfillstyle (INTERLEAVE_FILL, LIGHT BLUE);
Floodfill (1, 1, BROWN);
11 Sun
Setwoor (YELLOW);
setfillstyle (SOLID-FILL, YELLOW);
circle (2* 2 - 100, 100, 300);
Floodfill (2* 2 - 100, 100, YELLOW);
11 BODY
Setudor (LIGHT GREEN);
setfill style (SOLID_FILL, LIGHT GREEN);
floodfill (x-139, y+1, LIGHT GREEN);
11 TERRACE
for (int i=0; i< 41; ++i) {
          line (x-140+1, y-1, x-60-1, y-1);
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```
for (int j=0; j < 40; ++j) &
                 setcolor (RED);
if (j/1.9 == 0) }
                                  Setwoon (BLACK);
                   line (x-150+j, y-j, x-140+j, y-j);
line (x-105+j, y-45+j, x+105+j, y-45+j);
    line ( X + 164, y-46, x+150, y)
line ( X - 105, y-46, x-151, y)
line ( X - 99, y-41, x-140, y)
   11 Interior DOOR
   rudangle (x-120, 2* y-180, x-80, 24 y-101);
line (x-60, y, 2*y x-60, 2*y-101);

Circle (x-113, 2*y-140, 3);

Set fill style (SOLID-FILL, BLACK);

Floodfill (x-119, 2*y-169, BLACK);
 11 Interior Ciacle Window
 circle (x-100, y+10, 15);
circle ( x-100, y+10, 16);

sct fillstyle ( SOLID-FILL, WHITE);

Floodfill ( x-100, y+10, BLACK);

line (x-100, y-5, x-100, y+25);
```

line (x-115, y+10, x-85, y+10); II Interior Rectangle Window.

rectangle (x+10, y+100, x+70, 2*y-201)

rectangle (x+19, y+99, x+71, 2*y-200)

flood fill (x+13, 2*y-198, Black).

Line (x+40, y+100, x+40, 2*y-201).

Line (x+10, 18*y-50, x+70, 1.5 x y-50); void makearc (int n, int y, int o, int color = 0, int sangle = 0, int earle = 360, int arcmode=0) + int xp, yp; for (int ?= sangle; i < langle; ++?)? = x + x * sin (rad(i)) yp = y + x * cos (xad(i)); if (ax cmode == 1 && (i== sonyle || i== earyle)) Setcolor (color); Setcolor (color); line (x, y, xp, yp); buthixel (xp, yp, color);

wid car (int n, int y) of

Setupor (BLACK); Setupor (WHITE);

1/ Enterior line (x +220, y-20, x+225, y-20); line (x+225, y-20, x+225, y-45); line (x+220, y-20, x+222, y-45) line (x+225, y-45, x+125, y-50); line (x+125, y-50, x+75, y-95); line (x+75, y-95, x+75, y-95) line (x-75, y-95, x-140, y-50) line (x-140, y-50, x-180, y-50); line (x-180, y-50, x-180, y-20); line (x-73, y+12, x+131, y+12); line (x-73, y+12, x-75, y+8) line (x+131, y+12, x+184, y+8); line (x-129, y+12, x-170, y+12), line (x-127, y+8, x-129, y+12); line (x+186, y+8, x+169, y+12) line (x-180, y-20, x-114, y-20); line (x+220, y-20, x+173, y-20); line (x + 189, y+12, x+ 25, y-12); line (x+213, y+12, x+225, y); line (x+225, y, x+210, y); line (x+210, y, x+210, y-10); line (x+210, y-10, x+230, y-10); line(x+230, y-10, x+230, y-20);

line (x+230, y-20, x+225, y-20);
line (x+222, y-10, x+222, y);
line (x-170, y+12, x-180, y);
line (x-180, y, x-185, y-10);
line (x-185, y-10, x-185, y-20)
line (x-185, y-20, x-180, y-20)
line (x-185, y-10, x-185, y-10
line (x-177, y+4, x-179, y+4);
line (x-179, y+4);
line (x-172, y+10, x-179, y+10); 11 Interior line (x+79, y-90, x+115, y-50); line (x+115, y-50, x+125, y-50); line (x+105, y-50, x+70, y-90); line (x-70, y-90, x+20, y+90); line (x-70, y-90, x-110, y-50); line (x-110, y-50, x+105, y-50); line (x-70, y-50, x-70, y-90); line (x-70, y-50, x-70, y-90); line (x-68, y-50, n-68, y-90); line (x, y-90, x, y-50); line (x+5, y-90, x+5, y-50); line (x+10, y-90, x+10, y-50); line (x-110, y-50, x-110, y-30); line (x-72, y+5, y x+113, y+5); line (x+5, y+5, x+5, y-50); makear (x-100, y+5, 35, WHITE, 90, 195); line (x+105, y-50, x+105, y+5);

PAGE_ 1/ Wheel (12 makearc (x-100, y+5, 29, WHITE, 75, 2851; circle (x-100, y+5, 25); Circle (x-100, y+5, 17); circle (x-100, y+5, 6); Circle (x-100, y+6, 3); Line (x-101, y-1, x-102, y-12); Line (x-99, y-1, x-97, y-12); Line (x-10), y+11, x-102, y+12); Line (x-10), y+11, x-102, y+12); line (x-99, y+11, x-97, y+22);
line (x-106, y+4, x-117, y+2);
line (x-106, y+4, x-117, y+6)

line (x-94, y+4, x-83, y+2);
line (x-94, y+4, x-83, y+6); makearc (x+160, y+5, 29, WHITE, 75, 285 circle (x+160, y+5, 25); circle (x+160, y+5 , 17); circle (x+160, y+5, 6); circle (x+160, y+s, 3); line (x+161, y-1, x+162, y-12); line (x+159, 9-1, x+158, y-12); line (X+161, y+11, x+162, y+22 line (x+159, y+11, x+158, y+22); line (x+154, y+4, x+143, y+2); line (x+154, y+4, x+143, y+6); line (x+166, y+4, x+117, y+2) line (x+166, y+4, x+117, y+6);

1/ Lights and Accessories

rectangle (x+198, y-38, x+215, y-26);

rectangle (x+198, y-38, x+215, y-26);

rectangle (x+12, y-40, x-180, y-25);

rectangle (x+12, y-42, x+25, y-38);

rectangle (x-85, y-42, x-12, y-38);

rectangle (x+96, y-52, x+85, y-60);

line (x+100, y-50, x+96, y-54);

line (x+105, y-50, x+96, y-54);

makearc (x+102, y-50, 3, WHITE, 770);

makearc (x+102, y-50, 3, WHITE, D, 90);

int main () {

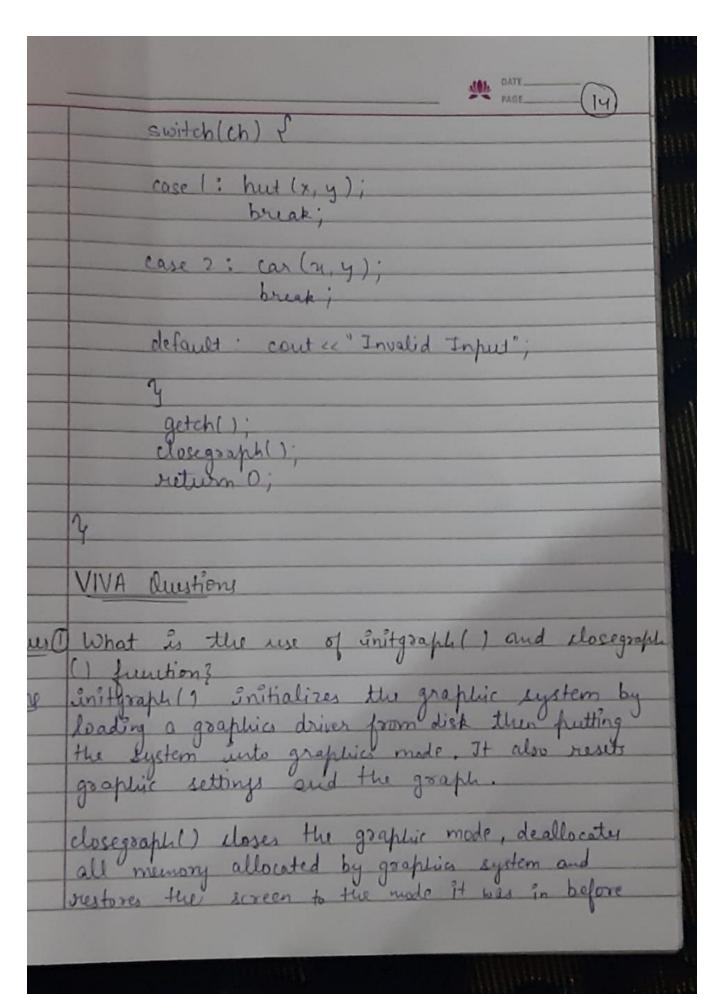
int ch; int gd = DETECT, gm, n, y; clrscx();

Cout < "What do you want to draw? In 1.
Hut In 2. Car In Enter your droire (1/2):";

cinss ch;

initgraph (legd, lgm, "C: "TURBOC3 "BG1");

x = getmax()/2; y = getmaxy()/2;



you called Pritgraph

Why do we need to use closegraph() function after getch()?

Girnerally, getch() is used at the end of the program set that the program terminates after user confirmation, closegraph() is used after this point so that all the memory that was held up by graphical elements is deallocated and thus premeding possible memory errors

which farameters are used to find ousolution of the screen?

a Ciraphics driver along with graph made are used to determine the resolution, palette and haves of display, detectaraph () detects your tystem's graphics adapter and chooses the mode that provides highest resolution for that adapter.

How is putpixel() different from gethixel()?

4 putpixel() is used to draw a pixel of given

specified point (21, y) whereas gethixel() is

used to get the colour of a specified point (21, y)

OUTPUT

