Experiment 1. Name: Yash Sarang Piv: DOAD ROU No: 47 DOP: 3/9/2021. DOS: 24/9/2021 Student's Sign- Jarlangyaxha Teacher's Sign -

Drawing basic primitives using C functions. Him : Theory: Initigraph initializes the graphies systems by loading a graphics driver from disk, and putting the system into graphic made. Syntax: # include Laraphics.h?

void integraph (int "graphdinor, int graphmode,

char "pollifochriver); graphresult () results the error code for the last graphics operation that reported on error and resets. Syrdax: # include (graphics .h)

int graph result (void); graphenrosmeg (int corrorcode) returns a pointer to the error message string associated with errorcode, the value returned by graph result. Syntax: # include (graphes.h)

char graph orrormeg (int error code);

corde () about a circle in the current abouting color with its centre at (x,y) and the sadius given by radius.

Syntaxe: # include Zgsaphia.h>
void circle (int x, int y, int sadius); at (xy) with a badius given by radius.

The are thavels from starting angle to end angle.

The stargle equals 0 and endangle equals 360,

The call to are observed a complete incle.

Syntax: # include & faphies h>

roid are (int x, int y, int stargle, intendangle, int rodius)

Pectagle () disturbs a rectougle inthe whent line style, thickness and distance colors (left top) is the upported of the rectougle and (right bottom) is its lower right corner. Syntax: # include (graphics.h)
void rectangle (int left, int top, int right, int bottom); odsampoly () defaus a polypon with numerous points, using the writer linestyle and color.

polypoints possits to a sequence of (numpoints * z) integers.

Syntax: #include Lgraphics h>

void drampoly (int numpoints, int "polypoints);

· close graph () de allocates all momory allocated by glaphics.
System, then restores the 3x screen to the mode it Syntax: # include (graphics. h)
voide closegraph (int sod = ALL_MINDOWS) - selector () sets the wrient drawing color to color, which can be garged from 0 to getmax color. The wrient drawing who is the value to which pixels are set when lines, and so on are blawn. Syntax: # include Labarphies.h.)

void set color (int color)

void putpixel (int x, int y, int color); e putpixel () plots a point in the color defined by color at (24)

Synton: Hindude Lakaphies. h. vint y, int color); The () draws a line in the wrient volor, using the current line.

Style and thickness between the points specified, (x,yi)

and (re, ye) without updating wrient position.

Syntan:

Hindude Laraphies. h

void line (int x, int y, int xe, int ye);

4 position (x,y), using the wrent justification settings and the wrent fustification settings Syntax: # include Lander outlootry (int x, int y, char text string); · cleardersee () exases the entire graphics screen and moves the Syntax: # include Kgsaphies.h)
Vold cleardorie (void); Followed by the too program eade:

CODE:

```
#include <stdio.h>
#include <graphics.h>
#include <stdlib.h>
#include <conio.h>
int main()
     int gdriver=DETECT, gmode, errorcode;
     int xmax, ymax;
     int x=50, y=150;
     char buffer[20];
     initgraph(&gdriver, &gmode, "C:\\TURBOC3\\BGI");
     errorcode=graphresult();
     if(errorcode!=0)
      {
            printf("Graphics error: %s\n", grapherrormsg(errorcode));
            printf("press any key to halt:");
           getch();
           exit(1);
      }
     setcolor(getmaxcolor());
     xmax=getmaxx();
     ymax=getmaxy();
     line (xmax/2, 0, xmax/2, ymax);
     line(0, ymax/2, xmax, ymax/2);
     outtextxy(xmax-150, ymax-50, "Yash Sarang");
     outtextxy(xmax-95, ymax-40, "D6AD - 47");
     setcolor (RED);
     circle(100,100,30);
     outtextxy(100,150, "CIRCLE X=100 Y=100");
     setcolor(GREEN);
     rectangle (350, 100, 400, 200);
     outtextxy(350,205,"RECTANGLE");
     setcolor(BLUE);
     ellipse(200,300,0,360,100,50);
     outtextxy(150,360,"ELLIPSE");
     setcolor(getmaxcolor());
     rectangle (400,300,500,400);
     outtextxy(400,ymax-70,"SQUARE");
     getch();
     cleardevice();
     for (x=50; x \le 400; x++)
            circle(x, y, 50);
            sprintf(buffer, "X=%d, Y=%d", x, y);
            delay(5);
            if(x==50)
                  outtextxy(40,85,buffer);
```

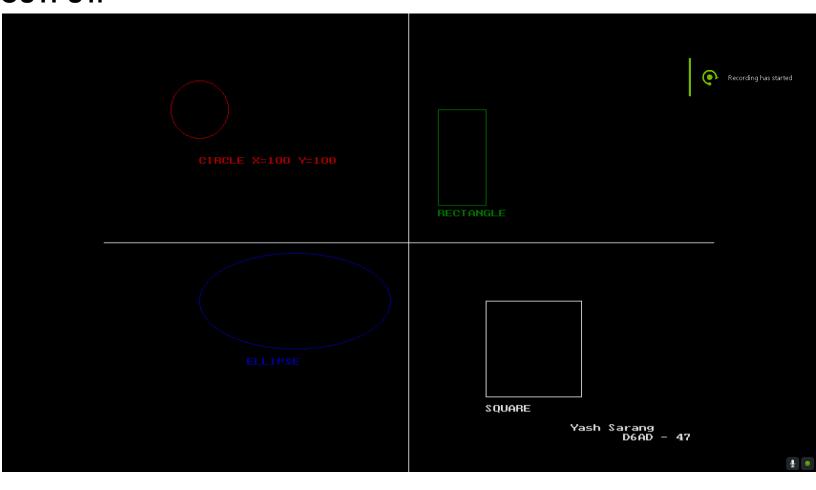
```
outtextxy(xmax-200,ymax-50,"Yash Sarang");
    outtextxy(xmax-180,ymax-40,"D6AD - 47");
    getch();
}

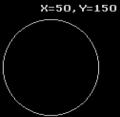
if(x==400)
{
    outtextxy(350,85,buffer);
    outtextxy(xmax-200,ymax-50,"Yash Sarang");
    outtextxy(xmax-180,ymax-40,"D6AD - 47");
    getch();
}

cleardevice();
}

getch();
closegraph();
return 0;
```

OUTPUT:



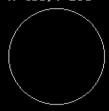


Yash Sarang D6AD - 47



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X=400,Y=150



Yash Sarang D6AD - 47

