PRACTICAL 1:

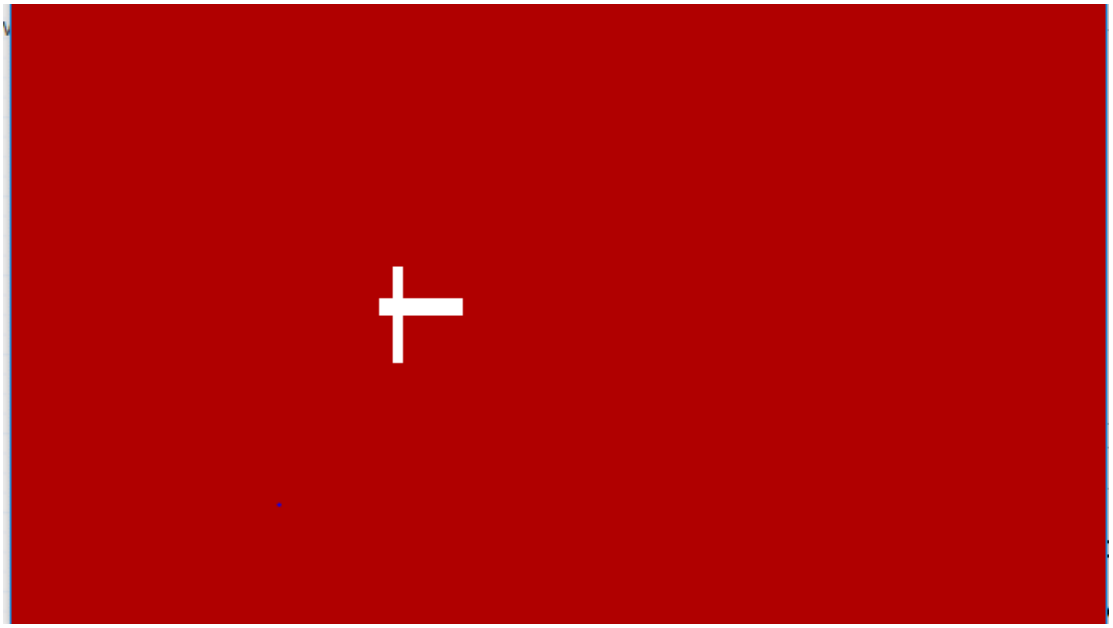
AIM: Write a Program to study different graphics functions. Initgraph(), closegraph(), getpixel(), putpixel(), arc(), bar(), cleardevice(), getmaxx(), getmaxy(), getx(), gety(), getcolor(), getbkcolor(), setcolor(), rectangle(), outtext(), line(), textheight(), textweight(), putpixel().

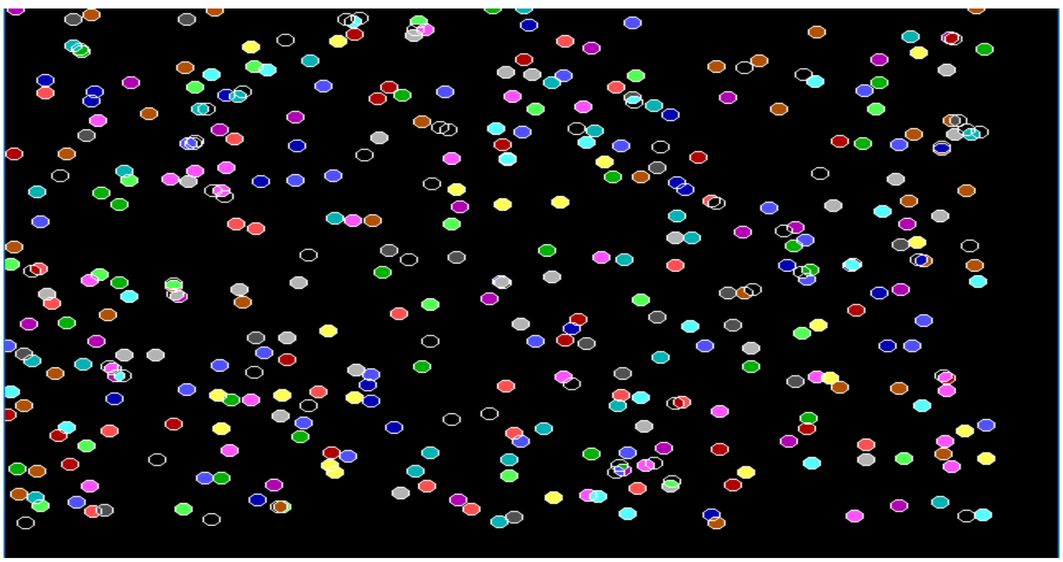
Source Code:

```
#include<stdio.h>
#include<conio.h>
#include<stdlib.h>
#include<dos.h>
#include<graphics.h>
void main()
{
        int gd,gm,abc,i,a,b;
        char c;
        char ch[100];
        gd=DETECT;
        initgraph(&gd,&gm,"C:\\TURBOC3\\BGI");
        cleardevice();
        setbkcolor(RED);   //sets background color
        line(100,200,150,250);//to draw line(x1,y1,x2,y2)
        putpixel(0,0,14); //puts color to 0,0 coordinate
        abc=getpixel(0,0); //putpixel gives color code at that coordinate
        sprintf(ch,"At print %d",abc);//prints abc i.e.color code of 0,0
        outtext(ch);// output on the screen
        arc(120,200,45,180,20);// draw arc(x,y,startangle,endangle,radius)
        delay(100);
        for(i=0;i<400;i++)
        {
        bar(10+i,40+i,15+i,100+i);//draw bar(left,top,right,bottom)
        bar(2+i,60+i,50+i,70+i);
        delay(5);
        if(i!=299){
        cleardevice();
        }
        }
        rectangle(500,300,280,350);
        setbkcolor(WHITE);
        for(i=0;i<400;i++)
        {
        setcolor(YELLOW);
        setfillstyle(SOLID_FILL,YELLOW);
```

```
        circle(200+i,200,100);
        floodfill(200+i,200,YELLOW);
        setcolor(BLUE);
        setfillstyle(SOLID_FILL,BLUE);
        circle(150+i,150,20);
        circle(250+i,150,20);
        floodfill(150+i,150,BLUE);
        floodfill(250+i,150,BLUE);
        arc(200+i,230,180,0,45);
        delay(5);
        if(i!=299){
        cleardevice();
        }
        }
        setbkcolor(BLACK);
        for(i=0;i<400;i++){
        a=random(600);
        b=random(450);
        setcolor(WHITE);
        setfillstyle(SOLID_FILL,random(15));
        circle(a,b,5);
        floodfill(a,b,WHITE);
        delay(100);
        }
        cleardevice();
        for(i=0;i<50;i++){
        outtextxy(random(600),random(450),"Amisha");
        settextstyle(random(10),HORIZ_DIR,random(10));
        delay(100);
        }
        getch();
        closegraph();
}
```

Output:



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