

PROJECT REPORT  
ON

**Greeting Card**

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## **Abstract**

This project is a simple project of computer graphics titled 'Greeting Card' developed by c programming language. Here we have two greeting card one is for Eid and another is for birthday. For viewing the greeting card, we just need to add some extra graphics library and we do not need have a high configuration computer or laptop.

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## Introduction:

The title of the project is 'Greeting Card'. This is a simple Computer graphics project. We can easily create and view the greeting card using C language with some graphics library.

## Work Procedure:

Here we have two greeting cards: one is for Eid and another one is for birthday.

### Code Eid greeting card:

```
#include<stdio.h>
#include<conio.h>
#include <graphics.h>

int main()
{
    int gd = DETECT, gm;
    initgraph(&gd, &gm,
"C:\\TC\\BGI");

    int cx = getmaxx()/2;
    int cy = getmaxy()/2;

    //change color
    setcolor(7);
    //arc(100,200,270,90,360);

    //setcolor(13);
    setfillstyle(1,YELLOW);
    pieslice(-100,200,230,90,350);
    //for change color
    setcolor(7);
    arc(-100,200,230,90,351);

    //setcolor(12);
    setfillstyle(1,12);
    pieslice(-100,100,230,90,400);
    //change color
    setcolor(7);
    arc(-100,100,300,90,401);

    settextstyle(1,0,7);
    //outtextxy(100,100,"EID");
    setbkcolor(12);
    setcolor(YELLOW);
    outtextxy(50,170,"Eid");
    settextstyle(1,0,4);
    outtextxy(40,230,"Mubarak");

    //moon

    setcolor(WHITE);
    setfillstyle(1,WHITE);
    arc(170,35,160,330,70);
    arc(170,35,165,325,69);
    arc(170,35,170,320,68);
    arc(170,35,175,315,67);
    arc(170,35,180,310,66);
    arc(170,35,185,305,65);
    arc(170,35,190,300,64);
    arc(170,35,195,295,63);
    arc(170,35,200,290,62);
    arc(170,35,205,285,61);
    arc(170,35,210,280,60);

    settextstyle(1,0,5);
    outtextxy(140,40,"*");

    setcolor(RED);
    setfillstyle(1,RED);
    arc(130,250,0,180,110);
    line(20,250,35,150);
    line(35,150,130,100);

    line(240,250,225,150);
    line(225,150,130,100);
    floodfill(130,110,RED);

    setcolor(7);
    setfillstyle(1,3);
    line(280,1,638,1);
    line(638,1,638,477);
    line(638,477,100,477);
    floodfill(300,10,7);

    //mosque
    setfillstyle(1,YELLOW);
    bar(400,200,550,350);
    setcolor(RED);
    setfillstyle(1,WHITE);
    line(450,350,500,350);
```

```

line(450,270,450,350);
line(500,350,500,270);
line(450,270,475,250);
line(500,270,475,250);
floodfill(455,300,RED);

//gombud
setcolor(BLACK);
setfillstyle(1,WHITE);
pieslice(475,200,0,180,75);
line(475,50,500,130);
line(475,50,450,130);
floodfill(475,100,BLACK);

//2nd
setcolor(BLACK);
setfillstyle(1,4);
bar(560,200,600,350);
bar(565,100,595,200);
setcolor(5);
setfillstyle(1,WHITE);
line(565,100,580,5);
line(595,100,580,5);
line(565,100,595,100);
floodfill(577,90,5);

//3rd
setfillstyle(1,RED);
bar(350,200,390,350);
bar(355,100,385,200);
setfillstyle(1,WHITE);
setcolor(BLACK);
line(355,100,370,5);
line(385,100,370,5);
line(355,100,385,100);
floodfill(377,90,BLACK);

int i;
setcolor(WHITE);
setbkcolor(3);
    settextrstyle(1,0,1);
//setbkcolor(10);
outtextxy(300,2,"*");
setcolor(YELLOW);
outtextxy(310,20,"*");
setcolor(WHITE);
outtextxy(315,40,"*");
setcolor(YELLOW);
outtextxy(315,60,"*");

setcolor(WHITE);
outtextxy(315,80,"*");
setcolor(YELLOW);
outtextxy(315,100,"*");
setcolor(WHITE);
outtextxy(315,120,"*");
setcolor(YELLOW);
outtextxy(310,140,"*");
setcolor(WHITE);
outtextxy(310,160,"*");
setcolor(YELLOW);
outtextxy(305,180,"*");
setcolor(WHITE);
outtextxy(300,200,"*");
setcolor(YELLOW);
outtextxy(295,220,"*");
setcolor(WHITE);
outtextxy(285,240,"*");
setcolor(YELLOW);
outtextxy(280,260,"*");
setcolor(WHITE);
outtextxy(270,280,"*");
setcolor(YELLOW);
outtextxy(255,300,"*");
setcolor(WHITE);
outtextxy(235,320,"*");
setcolor(YELLOW);
outtextxy(230,340,"*");
setcolor(WHITE);
outtextxy(220,360,"*");
setcolor(YELLOW);
outtextxy(205,380,"*");
setcolor(WHITE);
outtextxy(190,400,"*");
setcolor(YELLOW);
outtextxy(170,420,"*");
setcolor(WHITE);
outtextxy(150,440,"*");
setcolor(YELLOW);
outtextxy(130,460,"*");
    outtextxy(280,400,"May You be
Blessed with");
    outtextxy(235,430,"Peace on Eid-
ul-Adha and always");

getch();
closegraph();
return 0;
}

```

**Output:**



**Code of Birthday Greeting Card:**

```
#include<stdio.h>
#include<conio.h>
#include <graphics.h>

int main()
{
    int gd = DETECT, gm;
    initgraph(&gd, &gm, "C:\\\\TC\\\\BGI");

    int cx = getmaxx()/2;
    int cy = getmaxy()/2;

    //left side
    setcolor(5);
    setfillstyle(1,5);
    line(0,0,202,0);
    line(0,0,0,479);
    line(0,479,202,479);
    arc(200,20,270,90,20);
    arc(200,60,270,90,20);
    arc(200,100,270,90,20);
    arc(200,140,270,90,20);
    arc(200,180,270,90,20);
    arc(200,220,270,90,20);
    arc(200,260,270,90,20);
    arc(200,300,270,90,20);

    arc(200,340,270,90,20);
    arc(200,380,270,90,20);
    arc(200,420,270,90,20);
    arc(200,460,270,90,20);
    floodfill(100,100,5);

    setcolor(WHITE);
    setfillstyle(1,WHITE);
    circle(101,150,40);
    line(101,210,67,170);
    line(101,210,134,170);
    line(101,210,101,260);

    floodfill(101,150,WHITE);
    floodfill(101,195,WHITE);

    //2nd balon
    circle(170,160,30);
    line(150,200,180,188);
    line(150,200,140,160);
    line(150,200,101,260);

    floodfill(170,160,WHITE);
    floodfill(170,190,WHITE);
```

```

//3rd balon
circle(60,200,25);
line(80,230,85,200);
line(80,230,50,222);
line(80,230,101,260);

floodfill(60,200,WHITE);
floodfill(70,225,WHITE);

setcolor(RED);
setbkcolor(WHITE);
outtextxy(101,150,"*");

setbkcolor(5);
setcolor(WHITE);
settextstyle(8,0,5);
outtextxy(50,240,"Happy");
settextstyle(10,0,5);
outtextxy(10,280,"Birthday");
//end of leaft side

//right side
setcolor(3);
setfillstyle(1,3);
line(202,0,638,0);
line(638,479,638,0);
line(202,479,638,479);
arc(201,20,270,90,20);
arc(201,60,270,90,20);
arc(201,100,270,90,20);
arc(201,140,270,90,20);
arc(201,180,270,90,20);
arc(201,220,270,90,20);
arc(201,260,270,90,20);
arc(201,300,270,90,20);
arc(201,340,270,90,20);
arc(201,380,270,90,20);
arc(201,420,270,90,20);
arc(201,460,270,90,20);
floodfill(300,300,3);

setcolor(RED);
setfillstyle(1,RED);
line(420,400,570,400);
line(420,400,400,350);
line(570,400,590,340);
line(400,350,590,340);
floodfill(450,360,RED);

setcolor(12);

```

```

setfillstyle(1,12);
line(400,350,590,340);
line(400,350,395,340);
line(590,340,595,330);
line(395,340,595,330);
floodfill(400,345,12);

setcolor(YELLOW);
setfillstyle(1,YELLOW);
line(395,340,390,320);
line(595,330,600,305);
line(390,320,600,305);
line(595,330,395,340);
floodfill(395,330,YELLOW);

setcolor(11);
setfillstyle(1,11);
line(390,320,600,305);
line(400,290,590,255);
line(400,290,400,320);
line(590,255,590,310);
floodfill(500,300,11);

//candle
setcolor(RED);
setfillstyle(3,RED);
bar(490,100,510,200);
line(500,100,500,90);

setfillstyle(1,YELLOW);
circle(500,80,10);
line(500,50,495,70);
line(500,50,505,70);
floodfill(500,80,RED);
floodfill(500,68,RED);

//upper yellow
setcolor(YELLOW);
setfillstyle(1,YELLOW);
line(400,290,590,255);
line(420,290,420,180);
line(570,260,570,200);
line(570,200,420,180);
floodfill(430,270,YELLOW);

//right side end
//2nd part balon
setfillstyle(1,YELLOW);
circle(320,350,40);
line(280,400,340,385);

```

```

line(280,400,281,340);
floodfill(320,350,YELLOW);
floodfill(290,380,YELLOW);
line(280,400,270,500);

setcolor(RED);
setfillstyle(1,RED);
circle(250,300,30);
line(260,350,240,325);
line(260,350,268,322);
line(260,350,276,430);
floodfill(250,300,RED);
floodfill(255,335,RED);

setbkcolor(3);
settextstyle(10,0,5);
setcolor(WHITE);
outtextxy(250,20,"*");
outtextxy(300,50,"*");
outtextxy(400,110,"*");
outtextxy(390,80,"*");

outtextxy(300,150,"*");

getch();
closegraph();
return 0;
}

```

**Output:**



## Hardware & Software Requirements:

### For Development:

Hardware Used:

Processor: Intel(R) Core(TM) i3

RAM: 8 GB



Hard Disk: 10 GB (min)  
System Type: 64-bit Operating System  
Software Used: Code Blocks 16.01  
Operating System: Windows 10  
Version: Windows 10 PRO

### **Difficulties:**

As it's the first project in Computer graphics, there are several problems we face. Like drawing different types of shape (e.g. Balloon).

### **Future Scope:**

We want design the greeting card more attractive in future.

### **Conclusion:**

We can easily draw the greeting card using c language, and we can also send it to our friends and relative.

### **References:**

- [1] <https://www.geeksforgeeks.org/arc-function-c/>
- [2] <https://www.programmingsimplified.com/c/graphics.h/line>
- [3] <https://www.includehelp.com/code-snippets/c-graphics-program-to-draw-a-line.aspx>