

Flag Hoisting

Software Development Capstone Project

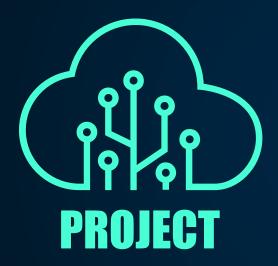
MD. ASHIQUR RAHMAN

ID: 201-35-611

PC: B

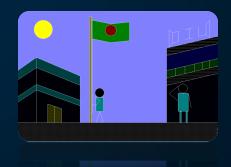
Department of Software

Engineering



Flag Hoisting

The projects objective to show graphically hoisting of a Flag.



WHAT I AM WORKING ON



WAVING FLAG

Flag go up with national anthem and waves out



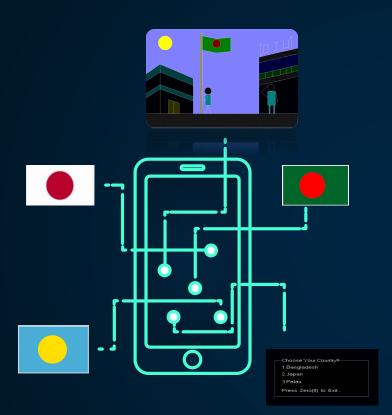
CHOOSE THE COUNTRY

Choosing the 3 country option.



REALISTIC, MUSIC ANTHEM, IMAGE, Bird Fly

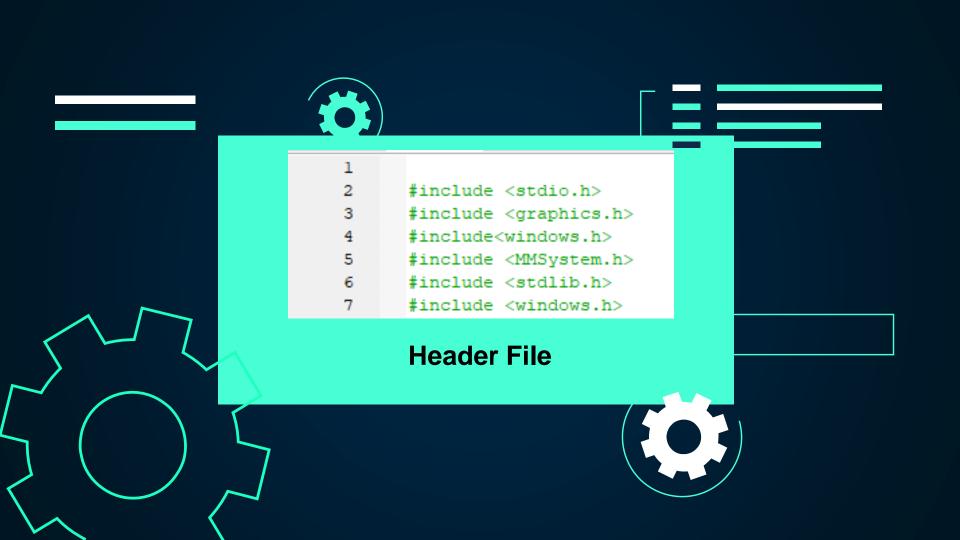
Sound system, image, birds flying added look like Realistic.



ABOUT THE PROJECT

In this project we have 2 people, a flag pole, buildings and sun. All these objects are drawn using the basic functions provided in <graphics.h>. At the beginning flag is down, which is hoisted by a person .I try to look some realistic.

The person approaches the flag post and host the flag, which is shown with a good animation. Flag go up with national anthem and waves out, which look awesome.





```
int a,b,c,d,e;

void bird()
{
//bird
    circle(50+b,100,5);
    line(53+b,98,60+b,100);
    line(53+b,102,60+b,100);
    circle(50+b,98,1);
    ellipse(35+b,100,0,360,10,5);
    line(28+b,100,15+b,95);
    line(28+b,100,14+b,96);
    line(29+b,100,13+b,97);
    line(29+b,101,12+b,98);
    line(29+b,101,12+b,98);
    line(29+b,103,12+b,100);
-}

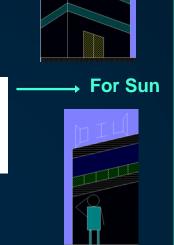
void handdown()
{
    c=b;
```

For Man and others objects

```
void setSun()
{
    setfillstyle(SOLID_FILL, YELLOW);
    circle(137,100,50);
    floodfill(126, 104, WHITE);
}
```

For Birds

```
void setOthers()
    setfillstyle (SOLID FILL, BROWN);
    rectangle(385, 30, 395, 600);
    floodfill(390,414,WHITE);
    setfillstyle (SOLID FILL, BROWN);
    circle(400, 40, 5);
    floodfill(401,41,WHITE);
   line(400, 45, 400, 550);
   setfillstyle (CLOSE DOT FILL, LIGHTGRAY);
    rectangle(0, 600, 1080, 700);
    floodfill(98,627,WHITE);
    //flag man
    setfillstyle (CLOSE DOT FILL, BLACK);
    circle(440, 440, 25):
    floodfill(441,441,WHITE):
    setfillstyle (SOLID FILL, CYAN);
    rectangle (420, 465, 460, 540);
    floodfill (421, 466, WHITE);
   line(440, 540, 420, 600);
   line(440, 540, 460, 600);
```



For Left and Right Buildings

```
void leftbuilding()

{
    //gattaleft
    setfillstyle(SLASH_FILL, BROWN);
    line(160,500,235,525); //1
    line(160,500,160,600); //2
    line(198,512,198,600); //4
    line(160,600,235,600); //5
    floodfill(183,551,WHITE);
    setfillstyle(SLASH_FILL, BROWN);
    line(160,500,235,525); //1
    line(235,525,235,600); //3
    line(198,512,198,600); //4
    line(160,600,235,600); //5
    floodfill(221,556,WHITE);

//buildingleft
setfillstyle(9,CYAN);
```

```
void rightbuilding()
    //buildingright
    setfillstvle(2,DARKGRAY);
    line(800,200,1080,135); //1
    line(800.200.800.600): //2
    line(800.240.1080.175): //3
    floodfill(818,210,WHITE);
    setfillstyle (9, BLUE);
    line(800,320,1080,255); //6
    line(800,240,1080,175); //3
    line(800.200.800.600): //2
    floodfill(842,247,WHITE);
    setfillstyle(2,DARKGRAY);
    line(800,360,1080,295); //4
    line(800,400,1080,335);
    floodfill(853,359,WHITE);
    setfillstyle(10,BLUE);
    line(800,200,800,600); //2
   line(800,400,1080,335); //5
    line(800,600,1080,600); //7
    floodfill(1043,376,WHITE);
    floodfill(888,580,WHITE);
    setfillstyle(SLASH FILL, GREEN);
   line(800,360,1080,295);
   line(849,309,849,349); //1
```

```
Main Function
int main()
     initwindow(1080, 700, "Flag Hoisted");
                                                                Initialized BGI window
     int i;
                                                                Initial for loop
     b=0:
                                                              For Birds
     c=0;
     d=0:
int points[] = {400,50, 500, 70, 600, 60, 600, 160, 500, 170, 400, 150, 400, 50}, base[] = {400,50, 600,50, 600,150, 400,150, 400,
              frame2[] = {400,50, 470, 60, 600, 65, 600, 165, 570, 160, 400, 150, 400, 50};
int a,b,c,d,e;
```

Initialized points, base & frame for waving flag

```
settextstyle(10,0,5);
outtextxy(170,50,"DAFFODIL INTERNATIONAL UNIVERSITY");
settextstyle(10,0,2);
outtextxy(350,100,"Department of Software Engineering");
settextstyle(8,0,4);
outtextxy(300, 83+150, "Name : Md. Ashigur Rahman");
outtextxy(300, 110+170, "ID : 201-35-611");
outtextxy(300, 137+190, "Project Name : Flag Hoisting");
outtextxy(300, 207+170, "Press any key to start...");
readimagefile("diu.jpg",50,50,150,100);
```

Intro Screen



ID: 201-35-611
Project Name: Flag Hoisting
Press any key to start...

Choose Your Country!!

1.Bangladesh

2.Japan

3.Palau

Press Zero(0) to Exit...

Using by While(1), User don't need to off project for another select option. Users can be continues select any option.

Option Selection Screen

```
while(1)
{
PlaySound("intro.wax", NULL, SND_ASYNC);
setfillstyle(10, BLUE);
rectangle(250, 200, 900, 450);
floodfill(0, 0, WHITE);
settextstyle(SANS_SERIF_FONT, 0, 4);
outtextxy(300, 83+100, "Choose Your Country!!");
outtextxy(300, 110+120, "l.Bangladesh");
outtextxy(300, 137+140, "2.Japan");
outtextxy(300, 137+140, "2.Japan");
outtextxy(300, 180+150, "3.Palau");
//settextstyle(SANS_SERIF_FONT, 0, 3);
outtextxy(300, 240+150, "Press Zero(0) to Exit...");
```

```
/Flag go up
  char key;
  key = (char) getch();
  cleardevice();
```

Loading Bar

Initialized Key

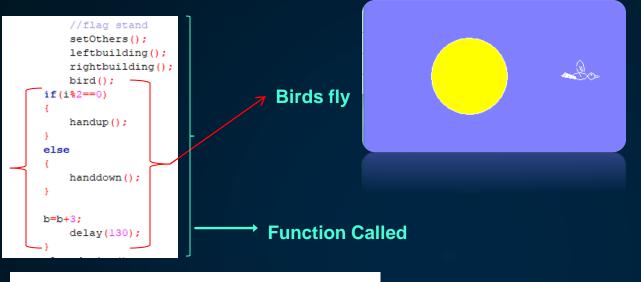
```
outtextxy(105, 200, "Loading graphics...");
rectangle(106, 261, 518, 286);
for(i=113; i<=513; i++)
{
    rectangle(112, 267, i, 281);
    delay(1);
}</pre>
```

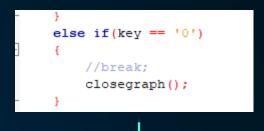
```
if(key == '1')
                  //Bangladesh
   outtextxy(105, 200, "Loading graphics...");
   rectangle(106, 261, 518, 286);
   setfillstyle (SOLID FILL, GREEN);
   rectangle (433, 445, 640, 540);
    floodfill(607,463,WHITE);
   setfillstyle(SOLID FILL, RED);
    circle(530,490,30);
    floodfill(520,490,WHITE);
   outtextxy(400,566, "BANGLADESH");
    settextstyle (9,0,3);
   outtextxy(750,240, "Bangladesh");
    outtextxy(650,300, "This is Country of ASIA");
   outtextxy(550,360,"Dhaka is the capital city of Bangladesh");
   readimagefile("logo.jpg", 280, 50, 800, 150);
    for(i=113: i<=513: i++)
        rectangle(112, 267, i, 281);
        delay(1);
```

```
else if(kev == '2')
    outtextxy(105, 200, "Loading graphics...");
    rectangle(106, 261, 518, 286);
    setfillstyle(SOLID FILL, RED);
    circle(530,490,30);
    floodfill(520,490,WHITE);
    setfillstyle(SOLID FILL, WHITE);
   rectangle (433, 445, 640, 540);
    floodfill(607,463,WHITE);
    outtextxy(470,566,"JAPAN");
    settextstyle(9,0,3);
    outtextxy(800,240, "Japan");
    outtextxy(650,300, "This is Country of ASIA");
    outtextxy(600,360,"Tokyo is the capital city of Japan");
    readimagefile("logo.jpg", 280, 50, 800, 150);
    for(i=113: i<=513: i++)
       rectangle(112, 267, i, 281);
        delay(1);
```

```
else if(key == '3') //Palau
   outtextxy(105, 200, "Loading graphics...");
    rectangle(106, 261, 518, 286);
    setfillstyle (SOLID FILL, LIGHTBLUE);
    rectangle(433,445,640,540);
    floodfill(607,463,WHITE);
    setfillstyle (SOLID FILL, YELLOW);
    circle(520,490,30);
    floodfill(520,490,WHITE);
   outtextxy(470,566,"PALAU");
    settextstvle(9,0,3);
   outtextxy(800,240,"Palau");
   outtextxy(650,300, "This is Country of ASIA");
   outtextxy(550,360, "Melekoek is the Capital City of Palau");
   readimagefile("logo.jpg",280,50,800,150);
    for(i=113; i<=513; i++)
        rectangle(112, 267, i, 281);
        delay(1);
   delay(1000);
```

Option3:Pressed keyboard 3 for Flag Hoisted of Palau





For Exit from project by pressing keyboard

Daffodil International University

```
readimagefile("diu.jpg", 50, 50, 150, 100);

{
   PlaySound("intro.way", NULL, SND_ASYNC);

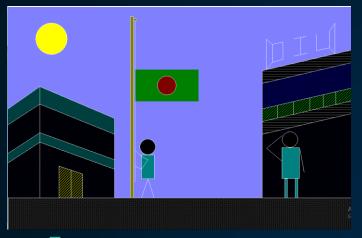
   PlaySound("Anthem.way", NULL, SND_ASYNC);

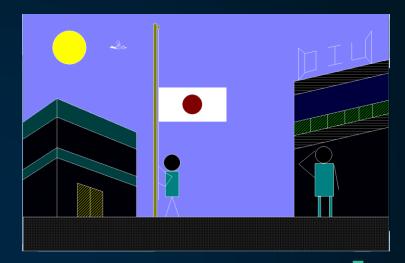
   PlaySound("japan.way", NULL, SND_ASYNC);

   PlaySound("Palau.way", NULL, SND_ASYNC);
```

Sound function

Image Function









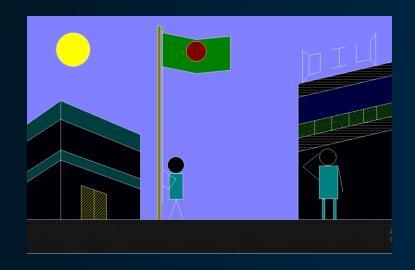
Bangladesh





Japan

Waving Flag





Summary

- Make the motion realistic.
- Flag post and other can be improve with better quality of graphics design.
- Sound added with National anthem getting sung as flag get hoisted.
- Waving Flag after the Flag hoisting.
- Flag go up.
- Image added in this project (logo).
- Birds flying in the sky.



THANKS!

