```
#include<st dio.h>
#include < conio.h >
#include<string.h>
#include< graphics.h>
#include < dos.h>
#include<pr ocess.h>
struct student
     char name[60];
    int id;
    int mar k[5];
    float gp[5];
     char grade[2];
}st [5];
void menu();
void menu1();
void menu2();
void mouse();
void mouse1();
void mouse2();
void message();
void single_info();
void mult i_info();
void single_r esult ();
void view_all();
int check(int mrk);
float s_qp(int mrk);
void grd(float gpa1,int i);
void out put (int i);
unsigned init mouse();
void show mouse();
void hidemouse();
void rest rict mouse(int x1,int y1,int x2,int y2);
void get mouse(int *but t on,int *x,int *y);
void main()
{
     clrscr();
    menu();
}
void menu()
    char mnu[30];
    int qd=0,qm;
    init gr aph(&gd,
                       &gm,".\\BGI");
    rect angle(60,350,400,60);
    rect angle(145,130,300,100);
    rect angle(145,190,300,160);
    rect angle(250,280,350,250);
     set color (10);
     spr int f(mnu,"
                      STUDENT RESULT SYSTEM");
     set t ext st yle(TRIPLEX_FONT,0,5);
     out t ext (mnu);
```

```
set color (13);
    spr int f(mnu,"MANMENU");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(170,70,mnu);
    set color (12);
    spr int f(mnu,"STUDENT INFO");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(160,103,mnu);
    set color (12);
    spr int f(mnu,"VIEW RESULT");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(164,163,mnu);
    set color (YELLOW);
    spr int f(mnu,"EXIT");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(280,253,mnu);
    message();
    mouse();
}
void mouse()
    int x,y,but t on;
    if(init mouse()==0)
         print f("Mouse support unavailable");
         ret urn;
    rest rict mouse(0,0,650,485);
    show mouse();
    while(1)
         get mouse(&but t on,&x,&y);
         if(x>=144&&x<=301&&y>=100&&y<=129&&but t on==1)
             closegraph();
             clrscr();
             menu1();
         else if(x > = 144\&x < = 301\&x > = 158\&x < = 190\&x but t on == 1)//checks if exit but t on is
pressed or not
             closegraph();
             clrscr();
             menu2();
         else if(x = 248\&x < 352\&y > 248\&y < 281\&but t on = 1)//checks if exit but t on is
pressed or not
             closegraph();
             br eak;
         }
    }
```

```
void menu1()
    char mnu[30];
    int qd=0,qm;
    init graph(&gd,
                       &gm,".\\BG\");
    rect angle(60,350,400,60);
    rect angle (145,130,300,100);
    rect angle (145,190,300,160);
    rect angle(250,280,350,250);
    rect angle(80,280,195,250);
    set color (10);
    spr int f(mnu,"
                      STUDENT RESULT SYSTEM");
    set t ext st yle(TRIPLEX_FONT,0,5);
    out t ext (mnu);
    set color (13);
    sprint f(mnu, "STUDENT INFORMATION");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(125,70,mnu);
    set color (12);
    sprint f(mnu, "SINGLE STUDENT");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(149,103,mnu);
    set color (12);
    spr int f(mnu, "MULTI STUDENT");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(153,163,mnu);
    set color (YELLOW);
    sprint f(mnu,"MANMENU");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(86,253,mnu);
    set color (YELLOW);
    spr int f(mnu,"EXIT");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(280,253,mnu);
    message();
    mouse1();
void mouse1()
    int x,y,but t on;
    if(init mouse()==0)
         print f("Mouse support unavailable");
         ret urn;
    rest rict mouse(0,0,650,485);
    show mouse();
    while(1)
```

```
get mouse(&but t on,&x,&y);
         got oxy(35,20);
         if(x>=144\&x<=301\&y>=100\&y<=129\&but t on==1)
              closegraph();
              clrscr();
              single_info();
         else if(x = 144\&x < 301\&y > 158\&y < 190\&but t on = 1)//checks if exit but t on is
pressed or not
         {
              closegraph();
              clrscr();
              mult i_info();
         else if(x > 248\&x < 352\&y > 248\&y < 281\&but t on = 1)//checks if exit but t on is
pressed or not
              closegraph();
              br eak;
         else if(x > -78\&x < -196\&x > -249\&x < -281\&x but t on = 1)/checks if exit but t on is
pressed or not
              closegraph();
              menu();
    }
void single_info()
    int i,j=- 1;
    print f("\nEnt er Name:");
    get s(st [0].name);
    pr int f("\nEnt er id:");
    scanf("%d",&st [0].id);
    for (i=0;i<5;i++)
    {
         pr int f("\nEnt er %d Mar k:",i+1);
         scanf("%d",&st [0].mar k[i]);
         j=check(st [0].mar k[i]);
         if(j==1)
              pr int f("\nYou Ent er Invalid input .");
              print f("PRESS ANY KEY TO EXIT.");
              get ch();
              exit (0);
    }
    menu();
}
void mult i_info()
    int i,j=- 1,k;
    for (k=0; k<5; k++)
```

```
{
         print f("\nEnt er %d Name:",k+1);
         scanf("%s",st [k].name);
         print f("\nEnt er id:");
         scanf("%d",&st [k].id);
         for (i=0;i<5;i++)
              print f("\nEnt er %d Mar k:",i+1);
              scanf("%d",&st [k].mar k[i]);
              j=check(st [k].mar k[i]);
              if(j==1)
                   print f("\nYou Ent er Invalid input .");
                   pr int f("PRESS ANY KEY TO EXIT.");
                   get ch();
                   exit (0);
              }
         }
    menu();
int check(int mrk)
     if (mr k > 100 \parallel mr k < 0)
         return 1;
    else
         ret urn 0;
}
void menu2()
     char mnu[30];
     int qd=0,qm;
    init graph(&gd,
                        &gm,".\\BG\");
    rect angle(60,350,400,60);
    rect angle(145,130,300,100);
    rect angle(145,190,300,160);
    rect angle(250,280,350,250);
    rect angle(80,280,195,250);
     set color (10);
     spr int f(mnu,"
                       STUDENT RESULT SYSTEM");
     set t ext st yle(TRIPLEX_FONT,0,5);
     out t ext (mnu);
     set color (13);
     sprint f(mnu,"RESULT");
     set t ext st yle(TRIPLEX_FONT,0,1);
     out t ext xy(190,70,mnu);
     set color (12);
     sprint f(mnu, "SINGLE RESULT");
     set t ext st yle(TRIPLEX_FONT,0,1);
     out t ext xy (155,103,mnu);
```

```
set color (12);
    spr int f(mnu,"VIEW ALL");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(180,163,mnu);
    set color (YELLOW);
    spr int f(mnu,"MANMENU");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(86,253,mnu);
    set color (YELLOW);
    spr int f(mnu,"EXIT");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(280,253,mnu);
    message();
    mouse2();
}
void mouse2()
    int x,y,but t on;
    if(init mouse()==0)
         print f("Mouse support unavailable");
         ret urn;
    rest rict mouse(0,0,650,485);
    show mouse();
    while(1)
    {
         get mouse(&but t on,&x,&y);
         got oxy(35,20);
         if(x>=144&&x<=301&&y>=100&&y<=129&&but t on==1)
             closegraph();
             clrscr();
             single_result();
         else if(x = 144\&x < 301\&y > 158\&y < 190\&but t on = 1)//checks if exit but t on is
pressed or not
        {
             closegraph();
             clrscr();
             view_all();
         else if(x > = 248\&&x < = 352\&&y > = 248\&&y < = 281\&&but t on == 1)//checks if exit but t on is
pressed or not
         {
             closegraph();
             exit (0);
         else if(x > -78\&x < -196\&x > -249\&x < -281\&x but t on ==1)/checks if exit but t on is
pressed or not
             closegraph();
             menu();
```

```
}
     }
}
void single_r esult ()
     int id1,i,flag=- 1,j;
     float total_gp=0,gpa;
     print f("Ent er ld:");
     scanf("%d",&id1);
     for (i=0;i<5;i++)
          if(id1==st [i].id)
               flag=1;
               br eak;
     if(flag==1)
          for (j=0;j<5;j++)
               st [i].gp[j]=s_gp(st [i].mar k[j]);
               t ot al_gp+=st [i].gp[j];
          gpa=t ot al_gp/5;
          gr d(gpa,i);
          out put (i);
          print f("\nPress any key to cont inue......");
          get ch();
          menu2();
     }
     else
     {
          pr int f("NOT FOUND.");
          print f("\nPress any key to cont inue......");
          get ch();
          menu2();
     }
void view_all()
     float total_gp,gpa;
     int i,j;
     for (i=0;i<5;i++)
          t ot al_gp=0;
          for (j=0;j<5;j++)
          {
               st[i].gp[j]=s_gp(st[i].mark[j]);
               t ot al_gp+=st [i].gp[j];
          gpa=t ot al_gp/5;
          gr d(gpa,i);
          get ch();
     for (i=0;i<5;i++)
```

```
{
         pr int f("\n %d st udent ",i+1);
         print f("\nSt udent name:%s",st [i].name);
         print f("\nSt udent ld:%d",st [i].id);
         pr int f("\nSt udent Gr ade:%s",st [i].gr ade);
    print f("\nPress any key to cont inue......");
    get ch();
    menu2();
float s_gp(int mrk)
     float gp;
     if(mrk>89)
          gp=4;
     else if(mrk>79)
          gp=3.75;
    else if(mr k>69)
          gp=3.5;
    else if(mr k>59)
         gp=3.25;
     else if(mrk>49)
          gp=3;
     else
          gp=0;
    ret urn gp;
void gr d(float gpa1,int i)
    if(gpa1==4)
          st r cpy(st [i].gr ade,"A+");
     else if(gpa1>=3.75)
          st r cpy(st [i].gr ade,"A");
     else if(gpa1>=3.5)
         st r cpy(st [i].gr ade,"A- ");
     else if(gpa1>=3.25)
          st r cpy(st [i].gr ade,"B+");
     else if(gpa>=3)
          st r cpy(st [i].gr ade,"B");
    if(gpa 1≺3)
         st r cpy(st [i].gr ade,"F");
}
void out put (int i)
     clrscr();
     pr int f("\nSt udent Name:%s",st [i].name);
    print f("\nSt udent ID:%d",st [i].id);
     pr int f("\nSt udent G ade:%s",st [i].gr ade);
}
void message()
     char mnu[30];
     set color (WHTE);
     rect angle(637,350,420,60);
```

```
set color (11);
    sprint f(mnu,"Develobed by :");
    set t ext st yle(TRIPLEX_FONT,0,1);
    out t ext xy(440,60,mnu);
    spr int f(mnu, "Shamim Ebna hasan");
    out t ext xy(440,100,mnu);
    spr int f(mnu,"ID:");
    out t ext xy(440,140,mnu);
    spr int f(mnu,"CSE- 02605493");
    out t ext xy(440,180,mnu);
    sprint f(mnu,"EMAL:");
    out t ext xy(440,220,mnu);
    spr int f(mnu,"badboy007007@gmail.com");
    out t ext xy(440,260,mnu);
}
unsigned init mouse()
    _AX=0;
    genint errupt (0x33); //Generat e Inpt errupt
    ret urn_AX;
}
void show mouse()
    _AX=1;
    genint er r upt (0x33);
}
void hidemouse()
     _AX=2;
    genint er r upt (0x33);
}
void rest rict mouse(int x1,int y1,int x2,int y2)
    _AX=7;
    _CX=x1;
    _DX=x2;
    genint er r upt (0x33);
    _AX=8;
    _CX=y1;
    _DX=y2;
    genint er r upt (0x33);
}
void get mouse(int *but t on,int *x,int *y)
```

```
_AX=3;
genint er r upt (0x33);
*but t on=_BX;
*x=_CX;
*y=_DX;
}
```