

## Ahsanullah University Of Science And Technology (Project-14)

**Project Name: Grading Management System for EEE Department** 

Presented by: -

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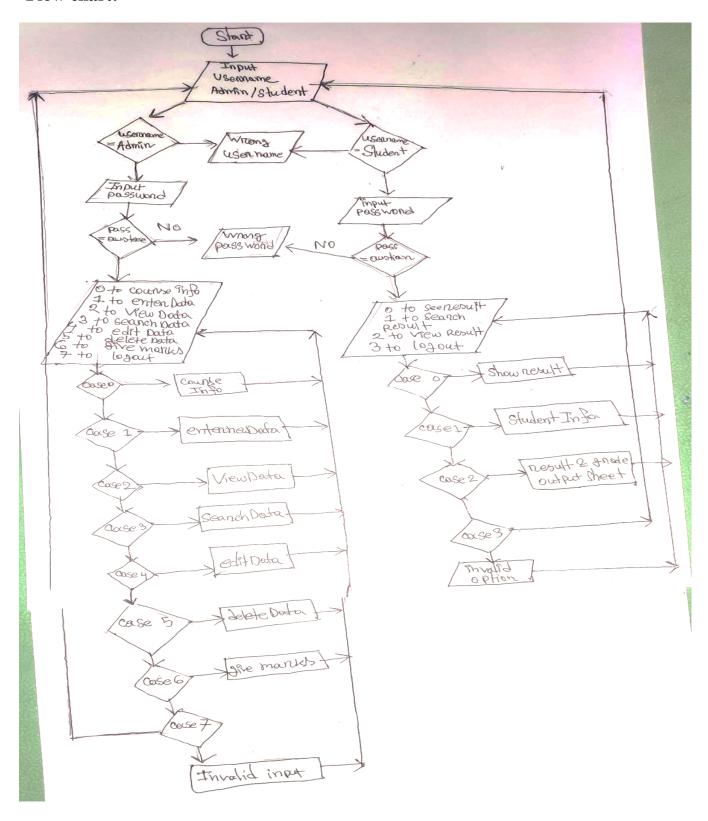
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**Section: B** 

Group:B1

**Introduction:** A project named "Grading Management System for EEE Department" is done using C++ programming language. This project is developed for 2 types of users, Admin and Student where an admin can see course information, put data, view data, search data, delete data, update data and give marks to the students. On the other hand a student can only see his/her information and result.

## Flow chart:



## Here is the full code of the project:

```
#include<iostream>
#include<fstream>
////NOTE:The Password for student is "austian"...
using namespace std;
string arr1[20],arr2[20],arr3[20],arr4[20],arr5[20],arr6[20]; //6 arrays for 6 types of data
int total=0;
                 //counts numb of student
class global{
public:
void menu();
//gives information about the course (name and title) of 8 semesters of EEE
class course
{
private:
  int year1, semester1; public:
 void cou(string title,string cno,int year,int semester){ cout<<endl;</pre>
year1=year;
semester1=semester;
```

```
cout<<"course title:"<<title<<endl; cout<<"course no
:"<<cno<<endl;
 }
}m1;
//shows the gpa automatically when admin gives marks
//also counts result for student(students can know result by puting their id only)
class result{
private:
float p,q,r,k,t,u,v,w,myid; public:
void grade(float &marks)
{
if (marks>=80){cout<<"(A+)";marks=4.00;}
else if(marks>=75 && marks<=79) {cout<<"(A)";marks=3.75;} else if(marks>=70
&& marks<=74) {cout<<"(A-)";marks=3.5;} else if(marks>=65 && marks<=69)
{cout<<"(B+)";marks=3.25;}
else if(marks>=60 && marks<=64) {cout<<"(**)";marks=3.00;}
else if(marks>=55 && marks<=59) {cout<<"(";marks=2.75;} else if(marks>=50
&& marks<=54) {cout<<"(C+)";marks=2.5;}
}m1;
//shows the gpa automatically when admin gives marks
```

//also counts result for student(students can know result by puting their id only)

```
class result{
private:
float p,q,r,k,t,u,v,w,myid; public:
void grade(float &marks)
{
if (marks>=80){cout<<"(A+)";marks=4.00;}
else if(marks>=75 && marks<=79) {cout<<"(A)";marks=3.75;} else if(marks>=70
&& marks<=74) {cout<<"(A-)";marks=3.5;} else if(marks>=65 && marks<=69)
{cout<<"(B+)";marks=3.25;}
else if(marks>=60 && marks<=64) {cout<<"(**)";marks=3.00;}
else if(marks>=55 && marks<=59) {cout<<"(";marks=2.75;} else if(marks>=50
&& marks<=54) {cout<<"(C+)";marks=2.5;}
else
      if(marks > = 45)
                      && marks<=49) {cout<<"(C)";marks=2.25;}
if(marks>=40 && marks<=44) {cout<<"(D)";marks=2.00;} else if (marks<40){
cout<<"(F)";marks=0.0;}
}
void calculateResult()
{
 int y,s,id;
 cout<<"Enter year of the Student(1/2/3/4):"<<endl; cin>>y;
 cout << "Enter semester of the student(1/2):" << endl; cin>>s;
 cout<<"Enter student ID(no dots.):"<<endl; cin>>id;
float a,b,c,d,e,f,g,h;
//shows course name and title when admin wants to give marks
//1(1st year)
```

```
if (y == 1)
                      if (s == 1) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<<"[1-100]:"<<endl;
cout<<endl;
                              cout<< "Physic-PHY1105:";cin>>a; grade(a);cout<<endl;</pre>
                   cout << "Eectrical-circuitsI-EEE1101:";cin>>b; grade(b);cout << endl;
       cout << "Eectrical-circuits LAB I - EEE1102:";cin>>c; grade(c);cout << endl;
       cout<< "Mathmatics I - MATH1101 :";cin>>d; grade(d);cout<<endl;</pre>
       cout<< "mechanical - ME1101 :";cin>>e; grade(e);cout<<endl;</pre>
       cout<< "mechanical lab - ME1102 :";cin>>f; grade(f);cout<<endl;</pre>
       cout << "physics lab - PHY1106:";cin>>g;
if (y == 1)
{
                      if (s == 1) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<<"[1-100]:"<<endl;
cout<<endl;
                              cout<< "Physic-PHY1105:";cin>>a; grade(a);cout<<endl;</pre>
                   cout<< "Eectrical-circuitsI-EEE1101:";cin>>b; grade(b);cout<<endl;</pre>
       cout << "Eectrical-circuits LAB I - EEE1102:";cin>>c; grade(c);cout << endl;
       cout<< "Mathmatics I - MATH1101 :";cin>>d; grade(d);cout<<endl;</pre>
       cout<< "mechanical - ME1101 :";cin>>e; grade(e);cout<<endl;</pre>
       cout<< "mechanical lab - ME1102:";cin>>f; grade(f);cout<<endl;</pre>
```

cout << "physics lab - PHY1106:";cin>>

```
grade(g);cout<<endl;</pre>
       cout<< "chemistry - CHEM1101 :";cin>>h; grade(h);cout<<endl;</pre>
                       }
    //1.2(1st year second semester)
                       else if(s==2) {
 cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<endl; cout<<endl;
                       cout<<"Electrical circuirts II - EEE1203 :";cin>>a; grade(a);cout<<endl;</pre>
     cout<< "Eectrical-circuits II lab - EEE1202:";cin>>b; grade(b);cout<<endl;
     cout<< "simulation lab - EEE1210 :";cin>>c; grade(c);cout<<endl;</pre>
     cout<< "physics II - PHY1205 :";cin>>d; grade(d);cout<<endl;</pre>
     cout<< "Mathmatics II - Math203 :";cin>>e; grade(e);cout<<endl;</pre>
     cout<< "Mathmatics III - MATH1213 :";cin>>f; grade(f);cout<<endl;</pre>
     cout<< "Civil - CE 1213 :";cin>>g;
      grade(g);cout<<endl;</pre>
      cout<<"Civil drawing lab - CE 1202:";cin>>h; grade(h);cout<<endl;
                       }
               }
//2
       else if(y == 2) {
       if (s == 1)
```

cout<<"Enter marks of ID:"<<id<<" for year "<<y<< ",sem "<<s<endl; cout<<endl;

```
cout<<"Electronics - EEE2103 :";cin>>a; grade(a);cout<<endl;</pre>
     cout<< "Mechine Theory - EEE2105 :";cin>>b; grade(b);cout<<endl;</pre>
     cout<< "Mechine Lab - EEE2106:";cin>>c;
     grade(c);cout<<endl;</pre>
     cout<< "Programming language - EEE2109:";cin>>d; grade(d);cout<<endl;</pre>
     cout << "Mathmatics III - MATH2103 : ";cin>>e; grade(e);cout << endl;
     cout<< "Programming lab - EEE2110 :";cin>>f; grade(f);cout<<endl;</pre>
     cout<< " English lab - HUM2101 :";cin>>g; grade(g);cout<<endl;</pre>
     cout << "ELECTRONICS LAB - EEE2104:";cin>>h;
     grade(h);cout<<endl;</pre>
    //2.2
                      else if(s==2) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<endl; cout<<endl;
       cout << "Electronics II - EEE2201:";cin>>a; grade(a);cout << endl;
 cout<<"Electronics II LAB - EEE2202 :";cin>>b; grade(b);cout<<endl;</pre>
       cout<<"ENERGY CONVERSION II - EEE2203 :";cin>>c;
  grade(c);cout<<endl;</pre>
       cout<<"ENERGY CONVERSION II LAB - EEE2204:";cin>>d;
  grade(d);cout<<endl;
       cout<<"simulation - EEE2205 :";cin>>e; grade(e);cout<<endl;</pre>
       cout<<"measurement - EEE2206 :";cin>>f; grade(f);cout<<endl;</pre>
cout<< "measurement lab - EEE2207 :";cin>>g; grade(g);cout<<endl;</pre>
cout << "Mathmatics V - MATH 2203 :";cin>>h; grade(h);cout << endl;
```

}

```
}
//3
        else if(y == 3){
        if (s == 1) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<endl; cout<<endl;
                              cout<<"Digital Electronics-EEE3103:";cin>>a;
         grade(a);cout<<endl;</pre>
      cout<< "Digital Electronics II- EEE3104 :";cin>>b; grade(b);cout<<endl;</pre>
      cout<< "Signal system - EEE3105 :" ;cin>>c;
      grade(c);cout<<endl; cout<<"Electromagnets - EEE3106</pre>
      :";cin>>d; grade(d);cout<<endl;
      cout<< "Electrical propertyies- EEE3107:";cin>>e; grade(e);cout<<endl;</pre>
      cout<<"service design - EEE3108 :" ;cin>>f; grade(f);cout<<endl;</pre>
      cout<< "numarical technique lab - EEE3109 :";cin>>g; grade(g);cout<<endl;
      cout << "Industrial manage 3201 - HUM3109:";cin>>h; grade(h);cout << endl;
                       }
     //3.2
                       else if(s==2) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<endl; cout<<endl;
        cout<<"solid device - EEE3201 :";cin>>a; grade(a);cout<<endl;</pre>
  cout<<"power - EEE3202 :";cin>>b; grade(b);cout<<endl;</pre>
        cout<<"comunication theory - EEE3203 :";cin>>c; grade(c);cout<<endl;</pre>
```

```
cout<<"comunication theory lab - EEE3204:";cin>>d; grade(d);cout<<endl;
       cout<<"mictro processor - EEE3205 :";cin>>e;
  grade(e);cout<<endl;</pre>
       cout << "signal lab - EEE3206:";cin>>f; grade(f);cout << endl;
cout<< "signal processing - EEE3207:";cin>>g; grade(g);cout<<endl;</pre>
cout<< "micro processor2101 - EEE3208 :";cin>>h; grade(h);cout<<endl;</pre>
    }
//4
else if (y == 4) {
         if (s == 1) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<endl; cout<<endl;
                              cout<<"Elective I - EEE4103 :";cin>>a; grade(a);cout<<endl;</pre>
      cout<<"Elective II - EEE4102 :";cin>>b; grade(b);cout<<endl;</pre>
      cout<<"Elective III - EEE4105 :";cin>>c; grade(c);cout<<endl;</pre>
      cout << "Elective I-lab - EEE4106:";cin>>d; grade(d);cout << endl;
      cout<<"Elective II-lab - EEE4109:";cin>>e; grade(e);cout<<endl;</pre>
      cout<<"Elective IV - EEE4104 :";cin>>f; grade(f);cout<<endl;</pre>
      cout<<"Control system 1 - EEE4119 :";cin>>g; grade(g);cout<<endl;</pre>
      cout<<"Control system 2 - EEE4119 :";cin>>h; grade(h);cout<<endl;</pre>
                       }
    //4.2
                      else if(s==2) {
cout<<"Enter marks of ID:"<<id<<" for year "<<y<< "sem "<<s<endl; cout<<endl;
       cout<<" Project and thesis - EEE4200 :";cin>>a; grade(a);cout<<endl;
```

```
cout << "Elective V - EEE4204:";cin>>b;
  grade(b);cout<<endl;</pre>
       cout<<"Elective VI - EEE4239:";cin>>c;
  grade(c);cout<<endl;</pre>
       cout<<"Elective VII - EEE4206:";cin>>d; grade(d);cout<<endl;</pre>
       cout<<"Elective VIII - EEE4209 :";cin>>e; grade(e);cout<<endl;</pre>
 cout<<"Elective VI Lab - EEE4203 :";cin>>f; grade(f);cout<<endl;</pre>
 cout<<"Elective VII Lab - EEE4201 :";cin>>g; grade(g);cout<<endl;</pre>
cout<<"Society & ethics - HUM4129 :";cin>>h; grade(h);cout<<endl;</pre>
                      }
 }
p=a;q=b;r=c;k=d;t=e;u=f;v=g;w=h;myid=id;
}
//function for calculating result of student void
viewResult(int st)
 if(st==myid){ float
 result; int n;
 cout<<endl;
 cout<<"Enter the number of courses(Genarally 8) :"<<endl; cin>>n;
result=(p+q+r+k+t+u+v+w)/n;
cout<<"GPA result of ID:"<<myid<<"is <<<< "<<result; cout<<endl;
```

```
//class ends
}x1;
                      total=ch+total; for(int
                      i=0;i<ch;i++)
                      {
                             cout<<"\nEnter the Data of student
"<<i+1<<endl<<endl;
//class for studentInformation
class studentInfo{
public:
void newData()
              int ch=0;
                      cout << "How many students do u want to
enter??"<<endl;
                      cin>>ch;
                      if(total==0)
```

```
cout<<"Enter name :"; cin>>arr1[i]; //arr1 for
                         name cout<<"Enter Student ID :";</pre>
                         cin>>arr2[i];
                                                      //arr2 for id or roll
                         cout<<"Enter Section :";</pre>
                         cin>>arr3[i];
                                                   //arr3 for section
                         cout<<"Year:";
                         cin>>arr4[i];
                                                      //arr4 for year
                         cout<<"Enter Semester :";</pre>
                                                        //arr5 for semester
                         cin>>arr5[i];
cout<<"Enter department :";</pre>
                                                         //arr6 for dept
                         cin>>arr6[i];
                  }
         }
                           // total is not equal zero
         else
```

```
for(int i=total;i<ch+total;i++)</pre>
                       {
                               cout<<"\nEnter the Data of student
"<< i+1<< endl<< endl;
                               cout<<"Enter name:";</pre>
                               cin>>arr1[i];
                               cout<<"Enter Student ID :"; cin>>arr2[i];
                               cout<<"Enter Section:";</pre>
                               cin>>arr3[i]; cout<<"Year:";
                               cin>>arr4[i];
                               cout<<"Enter Semester:"; cin>>arr5[i];
      cout<<"Enter department :";</pre>
                               cin>>arr6[i];
                       }
                                                       //total value updated
                       total=ch+total;
                       }
}
void viewData()
{
                                  //jodi value enter() na kore tahole total zero hobe..show
       if(total==0)
hobe na
```

```
cout<<"No data is entered"<<endl;
       }
       else{ if(total==0)
       {
              cout<<"No data is entered"<<endl;
       }
       else{
       string rollno;
                             cout<<"Enter the ID no of student(No
dots.)"<<endl;
                             cin>>rollno;
                             for(int i=0;i<total;i++)
                              {
                                       if(rollno==arr2[i])
```

```
{
                                                 cout << "Name :" << arr1[i] << endl;
                             cout << "Student\ ID:" << arr2[i] << endl;\ cout << "Section
                             : "<<\!\!\operatorname{arr}3[i]<<\!\!\operatorname{endl}; cout<<\!\!"Year: "<<\!\!\operatorname{arr}4[i]<<\!\!\operatorname{endl};
                             cout << "Semester:" << arr 5[i] << endl;\\
         cout<<"Department :"<<arr6[i]<<endl;</pre>
                                                 }
                                       }
                             }
}
//function to edit data
void editData()
{
         if(total==0)
          {
                   cout<<"No data is entered"<<endl;</pre>
```

```
}
       else{
               string rollno;
                              cout<<"Enter the ID no(NO DOTS) of student which you want
to update" << endl;
                              cin>>rollno;
                                     for(int i=0;i<total;i++)
                              {
                                     if(rollno==arr2[i])
                                      {
                                             cout<<"\nPrevious
data" << endl << endl;
                                     cout << "Name :" << arr1[i] << endl;\\
                      cout<<"Student ID:"<<arr2[i]<<endl; cout<<"Section
                      :"<<arr3[i]<<endl; cout<<"Year :"<<arr4[i]<<endl;
                      cout << "Semester :" << arr 5[i] << endl;
      cout<<"Department :"<<arr6[i]<<endl;</pre>
```

```
//new data
```

```
cout<<endl;
cout<<endl;
        cout<<"\nEnter new data
                                  :"<<endl<<endl;
                                        cout<<"Enter name:";</pre>
                       cin>>arr1[i]; cout<<"Enter ID no
                       :"; cin>>arr2[i];
                 cout<<"Enter Section :"; cin>>arr3[i];
                       cout<<"Enter year :";</pre>
                       cin>>arr4[i];
                       cout<<"Enter semester :"; cin>>arr5[i];
cout << "Enter department:";
                       cin>>arr6[i];
                       }
               }
        }
```

```
//function to delete data void
deleteData()
{
       if(total==0)
        {
               cout<<"No data is entered"<<endl;</pre>
        }
       else{
               int a;
            cout<<"Press 1 to delete all record"<<endl;</pre>
                               cout<<"Press 2 to delete specific record"<<endl; cin>>a;
                               if(a==1)
```

```
{
                                     total=0;
                                                   //student numb=0
                                     cout<<"All record is deleted..!!"<<endl;
                              }
                              else if(a==2)
                              {
                              string rollno;
                              cout<<"Enter the roll no of student which you wanted to
delete" << endl;
                              cin>>rollno;
                              for(int i=0;i<total;i++)
                              {
                                        if(rollno==arr2[i])
```

```
{
                                                               for(int j=i;j<total;j++)</pre>
                                                               {
                                                               arr1[j] \hspace{-0.05cm}=\hspace{-0.05cm} arr1[j+1]; arr2[j] \hspace{-0.05cm}=\hspace{-0.05cm} arr2[j+1];
                                                      arr3[j]=arr3[j+1]; arr4[j]=arr4[j+1];
                                                               arr5[j]=arr5[j+1]; arr6[j]=arr6[j+1];
                                                     }
                                                    total--;
                                                    cout << "Your desired student record is
deleted"<<endl;
                                                    }
                                          }
                                          }
                               else
                               {
```

```
cout<<"Invalid input";</pre>
                       }
}
}
//end of student info class
}x,y;
class student
{
public:
   void searchInfoAndResult()
{
       ifstream inputFile("C:/Users/sizan/Desktop/grading.txt"); char c;
       while(inputFile)
       {
         inputFile.get(c);
         cout<<c;
       }
```

}
//student class(data and result sheet)
}info;
//global class ends
}glob;
//=====================================
//MAIN FUNCTION

nt main()
cout< <endl;< td=""></endl;<>
cout< <endl;< td=""></endl;<>
glob.menu();
/
/======================================
/menu function defination void
global::menu(){

```
string ad,pas1,pas2;
 cout<<"Enter Username(Admin/Student):"<<endl; cin>>ad;
 if (ad=="Admin")
 {
  cout<<"Enter User Password :"<<endl; cin>>pas1;
  while(pas1!="austeee")
  {
   cout<<"Error!..Wrong password.Try Again :"<<endl; cin>>pas1;
  }
int value;
       while(true)
```

```
cout<<endl;
cout<<endl;
cout<<endl;
-----WELCOME ----- " << endl;
cout<<"=======""<<endl;
cout<<endl;
cout<<"Enter your options"<<endl; cout<<endl;</pre>
cout << "(I)
             Press 0 to
                          << view course information :"<<endl; cout<<"(II)</pre>
             Press 1 to
                               << enter new data"<<endl; cout<<"(III)</pre>
     Press 2 to
                  <<
                          view data" << endl; cout << "(IV)
                                                           Press 3 to
                               search data" << endl; cout << "(V)
             Press 4 to
                                    edit data" << endl; cout << "(VI)
                               <<
             Press 5 to
                                    delete data" << endl;
                               <<
cout<<"(VII) Press 6 to
                           << give marks"<<endl;
```

<< endl;

{

cout <<"(VIII) Press 7 to

```
cout<<endl;
cout<<endl;
cout<<endl;

cin>>value;

switch(value)

{
case 0:
int year,semester;
cout<<"Enter year(1/2/3/4):"<<endl; cin>>year;
cout<<"Enter semester(1/2):"<<endl; cin>>semester;
///code for course information
```

```
m1.cou("chemistry", "CHEM1101",1,1); m1.cou("chemistry
       lab","CHEM1102",1,1);
                      }
                      else if(semester==2) {
cout<<"Information of 1 year 2 semester"<<endl; cout<<endl;</pre>
                             // add courses for year 1 semester 2
                             m1.cou("Electrical circuirts II", "EEE1203",1,2);
     m1.cou("Eectrical-circuits II lab", "EEE1202",1,2); m1.cou("simulation
     lab","EEE1210",1,2);
     m1.cou("physics II", "PHY1205", 1, 2);
     m1.cou("Mathmatics II", "Math203", 1, 2);
     m1.cou("Mathmatics III", "MATH1213", 1, 2);
     m1.cou("Civil", "CE 1213", 1, 1);
     m1.cou("Civil drawing lab", "CE 1202", 1,2);
```

```
}
//////year 2
              else if(year == 2) {
       if (semester == 1)
cout<<"Information of 2 year 1 semester"<<endl; cout<<endl;</pre>
                            m1.cou("Electronics", "EEE2103", 2,1); m1.cou("Mechine
     Theory", "EEE2105", 2,1);
     m1.cou("Mechine Lab", "EEE2106", 2,1); m1.cou("Programming
     language", "EEE2109", 2,1); m1.cou("Mathmatics
     III","MATH2103",2,1); m1.cou("sociology and
     Emglish","HUM2109",2,1); m1.cou("Programming
     lab", "EEE2110", 2,1); m1.cou(" English lab", "HUM2101", 2,1);
     m1.cou("ELECTRONICS LAB", "EEE2104", 2,2);
                     }
                     else if(semester==2) {
cout<<"Information of 2 year 2 semester"<<endl; cout<<endl;</pre>
                            // add courses for year 1 semester 2 m1.cou("Electronics
       II", "EEE2201", 2, 2);
 m1.cou("Electronics II LAB", "EEE2202", 2,2); m1.cou("ENERGY
       CONVERSION II", "EEE2203", 2, 2); m1.cou("ENERGY CONVERSION II
       LAB","EEE2204",2,2);
       m1.cou("simulation","EEE2205",2,2);
       m1.cou("measurement","EEE2206",2,2);
```

```
m1.cou("measurement lab", "EEE2207", 2, 2);
 m1.cou("Mathmatics~V","MATH~2203",2,2);\\
m1.cou("Acounting","HUM 2209",2,2);
                     }
                     // repeat
              }
//////year 3
       else if(year == 3){
       if (semester == 1) {
cout<<"Information of 3 year 1 semester"<<endl; cout<<endl;</pre>
```

```
m1.cou("Digital Electronics", "EEE3103", 3,1);
     m1.cou("Digital Electronics II", "EEE3104", 3,1);
     m1.cou("Signal system","EEE3105",3,1);
     m1.cou("Electromagnets", "EEE3106", 3,1); m1.cou("Electrical
     propertyies","EEE3107",3,1); m1.cou("service
     design", "EEE3108", 3,1); m1.cou("numarical technique
     lab","EEE3109",3,1); m1.cou("Industrial
     manage3201","HUM3109",3,1);
                     }
                     else if(semester==2) {
cout<<"Information of 3 year 2 semester"<<endl; cout<<endl;</pre>
                            // add courses for year 3 semester 2 m1.cou("solid device
       ","EEE3201",3,2);
 m1.cou("power","EEE3202",3,2); m1.cou("comunication
       theory","EEE3203",3,2);
```

```
m1.cou("comunication theory lab", "EEE3204", 3,2); m1.cou("mictro
       processor", "EEE3205", 3,2); m1.cou("signal lab", "EEE3206", 3,2);
 m1.cou("signal processing","EEE3207",3,2); m1.cou("micro
 processor2101","EEE3208",3,2);
                      }
                      // repeat
               }
///////year 4 else if (year
== 4) {
         if (semester == 1) {
cout<<"Information of 4 year 1 semester"<<endl;</pre>
```

```
cout<<endl;
```

```
m1.cou("Elective I","EEE4103",4,1);
     m1.cou("Elective II", "EEE4102", 4, 1);
     m1.cou("Elective III", "EEE4105", 4,1);
     m1.cou("Elective I-lab", "EEE4106", 4,1);
     m1.cou("Elective II-lab", "EEE4109", 4,1);
     m1.cou("Elective IV", "EEE4104", 4,1); m1.cou("Control system
     1","EEE4119",4,1); m1.cou("Control system 2","EEE4119",4,1);
                      }
                      else if(semester==2) {
cout<<"Information of 4 year 2 semester"<<endl; cout<<endl;</pre>
                             // add courses for year 1 semester 2 m1.cou(" Project
       and thesis","EEE4200",4,2);
 m1.cou("Elective V","EEE4204",4,2);
```

```
m1.cou("Elective VI", "EEE4239", 4, 2);
      m1.cou("Elective VII", "EEE4206", 4,2);
      m1.cou("Elective VIII", "EEE4209", 4,2);
m1.cou("Elective VI Lab", "EEE4203",4,2);
m1.cou("Elective VII Lab", "EEE4201", 4,2);
m1.cou("Society & ethics","HUM4129",4,2);
                     }
             }
  break;
             case 1:
                     x.newData(); break;
             case 2:
                     x.viewData();
                     break;
```

```
case 3:
                       x.searchData();
                       break;
               case 4:
                       x.editData();
                       break;
               case 5:
                       x.deleteData();
                       break;
   case 6: x1.calculateResult();
   break;
               case 7:
   cout<<endl;
   cout<<endl;
                       glob.menu();
               default:
                       cout<<"Invalid input"<<endl;</pre>
                       break;
       }
}
 //when student is logged in----
```

```
else if(ad=="Student")
  cout<<"Enter Student password :"<<endl; cin>>pas2;
  while(pas2!="austian")
   cout<<"Error!..Wrong password.Try Again :"<<endl; cin>>pas2;
  }
while(true)
int value1; cout<<endl;</pre>
cout<<endl;
-----WELCOME ------ " <<endl;
cout<<"=======""<endl;
cout<<endl;
cout<<"Enter your options:"<<endl; cout<<"(I) PRESS 0
TO VIEW_RESULT"<<endl;
```

```
cout<<"(II)
                PRESS 1 TO SEARCH_DATA"<<endl;
cout<<"(III) PRESS 2 TO SEE DATA AND RESULT SHEET"<<endl;
cout<<"(III) PRESS 3 TO Exit(logout)"<<endl;</pre>
cin>>value1;
cout<<endl; switch(value1)</pre>
{
case 0:
int roll1;
cout<<"Enter your roll no :"<<endl; cin>>roll1;
x1.viewResult(roll1); break;
case 1: cout<<endl;
x.searchData();
cout<<endl; break;</pre>
case 2:
cout<<endl; info.searchInfoAndResult();</pre>
  cout<<endl;
  cout<<endl;
  break;
case 3:
cout<<endl; cout<<endl;</pre>
       glob.menu();
default:
                      cout<<"Invalid input"<<endl;</pre>
break;
```

}

```
}
}
//if username is incorrect else

{
   while(ad!="Admin"&&ad!="Student")
   {
   cout<<"Error!!..Wrong Username,tryagain"<<endl; cin>>ad;
}}}
```

# Screenshots of the solution (console output) of the problem:

1) Logged in as an admin and pressed 0 to see course info

```
Enter Username (Admin/student) :

Admin

Cate Password :

Guistere Passw
```

```
Course title (Programming language course title (Programming language course no :MANIZIA)

course title :Rathmatics III

course no :MANIZIA)

course title :Rathmatics III

course no :MANIZIA

course title :Rathmatics III

course no :MANIZIA

course title :Rathmatics III

course no :HANIZIA

course no :HANIZIA

course no :EEZIIA

course title :Rathmatics III

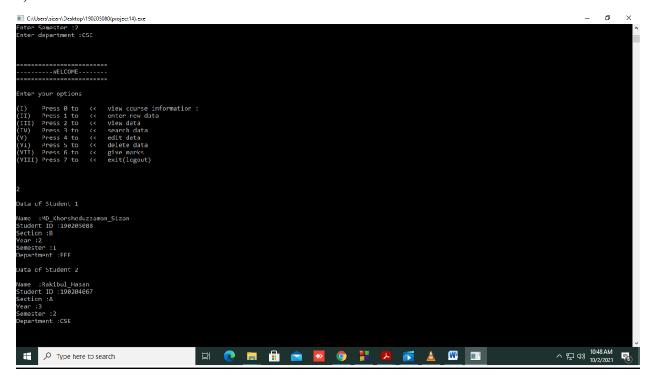
course no :HERIZIA

course no :HERIZIA
```

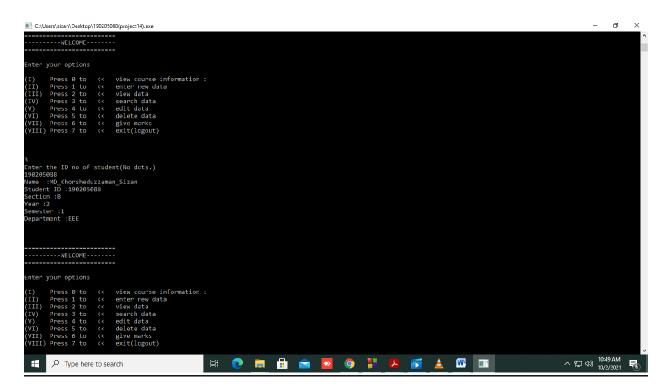
### 2) Pressed 1 to enter data(2) by admin

```
C. C. Uberviolano N. Creation State of the Control of the Control
```

#### 3)Pressed 2 to view data



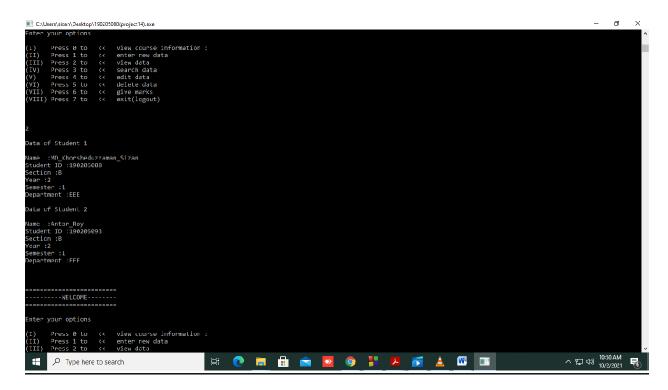
### 4) pressed 3 to search a specific data given by admin



### 5)Pressed 4 to update a data of student given by admin

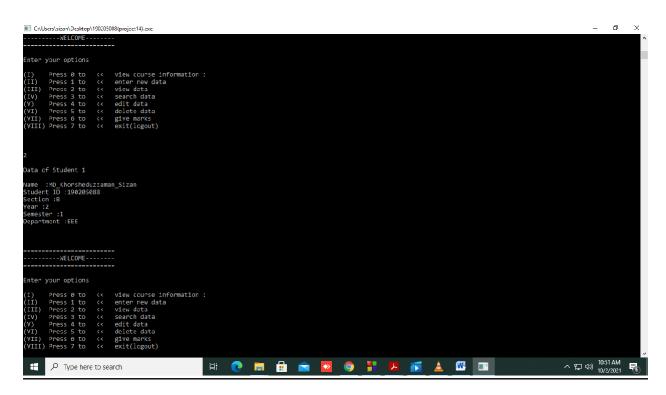
```
## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (2004) ## (20
```

### 6) Pressed 2 to view again

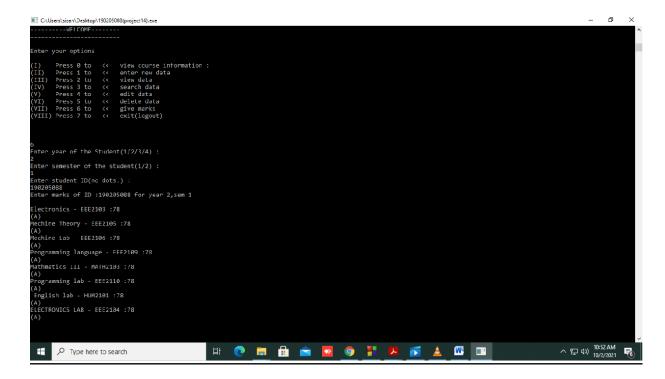


### 7) Pressed 5 to delete a specific data

### 8) Pressed 2 to view again



### 9) Pressed 6 to give marks to a specific student in his/her sem courseses



10) Admin logged out and student logged in ,pressed 0 to see his result,

11) 1 to see student info,

```
Coultworksizes/Desires/190005088gereject/j.com

Control your options;

City PRESS of TO VIEW RESULT
(II) PRESS 2 TO SEE DATA AND RESULT SHEET
(III) PRESS 2 TO SEE DATA AND RESULT SHEET

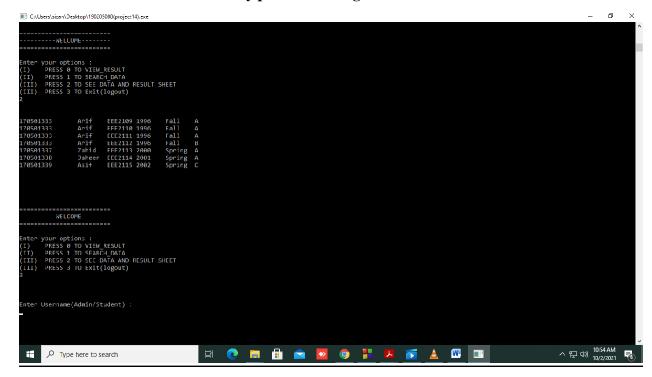
Compartment : EEE

Compartment : EEE
```

.

## 12)Pressed 2 to see grading.text file which include.

### Information and results and finally pressed 3 to logout



<u>Discussion:</u> C++ language was been used in this project. A number of classes (courses, student, result global)were used for better formatting and operation. A global class was used and all the other elements were included in that class. Besides many functions loops, arrays, switch statement, if else statement etc. were used for different purposes. Here 6 arrays were used for 6 different type of data. Switch statements were used to take options from users. A text file named grading.txt is used to show the data & result sheet from that file by file handling. The main function of this program is kept so simple, containing a function named menu which is the member of global class. Finally, this project is programmed keeping in mind that, it is programmer-friendly as well as user-friendly.