Ahsanullah University Of Science And Technology (Project-14)

(Topic:Grading Management System for EEE Department)

Presented by:-

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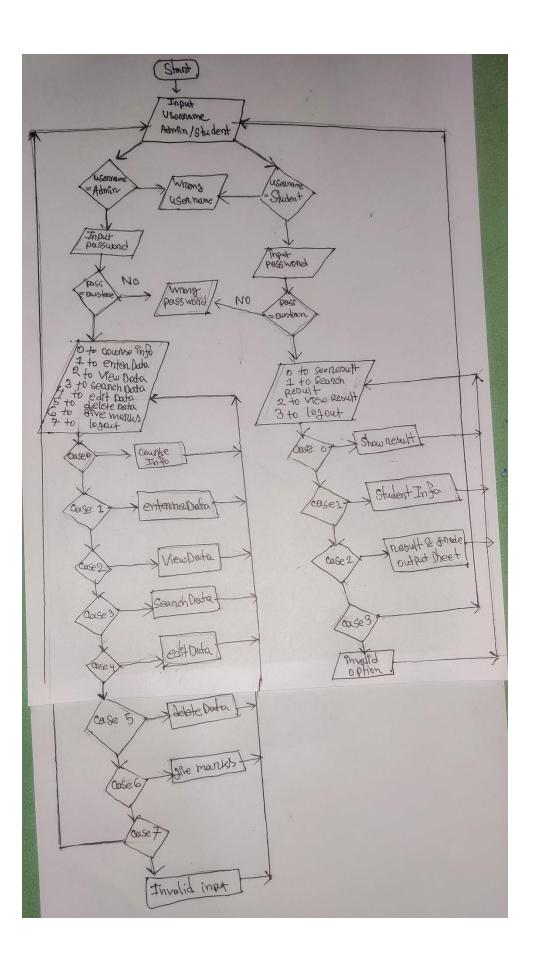
Section:B

Group:B1

Introduction: A project named "Grading Management Systemfor

Department" is been 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;
year1=year;
semester1=semester;
cout<<"course title :"<<title<<endl;</pre>
cout<<"course no :"<<cno<<endl;</pre>
 }
```

```
}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<<"($\mathbb{C}\marks=3.00;}
else if(marks>=55 && marks<=59) {cout<<"(2";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;}
else 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;</pre>
 cin>>s;
 cout<<"Enter student ID(no dots.) :"<<endl;</pre>
 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;</pre>
     cout<< "Eectrical-circuits LAB I - EEE1102 :";cin>>c;
     grade(c);cout<<endl;</pre>
     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;
```

```
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;</pre>
   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;</pre>
                 }
           }
//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;</pre>
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;</pre>
 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;</pre>
     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;</pre>
                 }
```

```
}
//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;</pre>
    cout<<"Electromagnets - EEE3106 :";cin>>d;
     grade(d);cout<<endl;</pre>
    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;</pre>
    cout<< "Industrial manage3201 - HUM3109:";cin>>h;
    grade(h);cout<<endl;</pre>
                 }
   //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;</pre>
     cout<<"mictro processor - EEE3205 :";cin>>e;
```

```
grade(e);cout<<endl;</pre>
      cout<<"signal lab - EEE3206 :";cin>>f;
 grade(f);cout<<endl;</pre>
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;</pre>
    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;</pre>
 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;</pre>
 cin>>n;
result=(p+q+r+k+t+u+v+w)/n;
cout<<"GPA result of ID :"<<myid<<"is <<<< "<<result;
cout<<endl;</pre>
 }
}
//class ends
}x1;
```

```
//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)
                 {
                 total=ch+total;
                 for(int i=0;i<ch;i++)</pre>
                 {
                       cout<<"\nEnter the Data of student</pre>
"<<i+1<<endl<<endl;
```

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

```
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 :";</pre>
                         cin>>arr2[i];
                         cout<<"Enter Section :";</pre>
                         cin>>arr3[i];
                         cout<<"Year :";</pre>
                         cin>>arr4[i];
                         cout<<"Enter Semester :";</pre>
                         cin>>arr5[i];
     cout<<"Enter department :";</pre>
                         cin>>arr6[i];
                   }
```

```
total=ch+total;
                                       //total value updated
                }
}
void viewData()
{
     if(total==0)
                       //jodi value enter() na kore tahole total zero
hobe..show hobe na
     {
           cout<<"No data is entered"<<endl;</pre>
     }
     else{
           for(int i=0;i<total;i++)</pre>
```

```
{
               cout<<"\nData of Student "<<i+1<<endl<<endl;</pre>
               student,arr[1]=2nd student
               cout<<"Student ID :"<<arr2[i]<<endl;</pre>
               cout<<"Section :"<<arr3[i]<<endl;</pre>
               cout<<"Year :"<<arr4[i]<<endl;</pre>
               cout<<"Semester :"<<arr5[i]<<endl;</pre>
     cout<<"Department :"<<arr6[i]<<endl;</pre>
            }
          }
}
//function to search data
void searchData()
{
```

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

```
{
                              cout<<"Name :"<<arr1[i]<<endl;</pre>
                  cout<<"Student ID :"<<arr2[i]<<endl;</pre>
                  cout<<"Section :"<<arr3[i]<<endl;</pre>
                  cout<<"Year:"<<arr4[i]<<endl;
                  cout<<"Semester :"<<arr5[i]<<endl;</pre>
      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</pre>
which you want to update"<<endl;
                        cin>>rollno;
                              for(int i=0;i<total;i++)</pre>
                        {
                              if(rollno==arr2[i])
                              {
                                    cout<<"\nPrevious
data"<<endl<<endl;
                              cout<<"Name :"<<arr1[i]<<endl;</pre>
                  cout<<"Student ID :"<<arr2[i]<<endl;</pre>
                  cout<<"Section :"<<arr3[i]<<endl;</pre>
                  cout<<"Year :"<<arr4[i]<<endl;</pre>
                  cout<<"Semester :"<<arr5[i]<<endl;</pre>
     cout<<"Department :"<<arr6[i]<<endl;</pre>
```

```
//new data
           cout<<endl;
           cout<<endl;
                  cout<<"\nEnter new data :"<<endl<<endl;</pre>
                                              cout<<"Enter name :";</pre>
                               cin>>arr1[i];
                               cout<<"Enter ID no :";</pre>
                               cin>>arr2[i];
                          cout<<"Enter Section :";</pre>
                               cin>>arr3[i];
                               cout<<"Enter year :";</pre>
                               cin>>arr4[i];
                               cout<<"Enter semester :";</pre>
                               cin>>arr5[i];
           cout<<"Enter department :";</pre>
                               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;</pre>
                        cin>>a;
                        if(a==1)
```

```
{
                             total=0; //student numb=0
                             cout<<"All record is deleted..!!"<<endl;</pre>
                       }
                       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++)</pre>
                       {
                             if(rollno==arr2[i])
```

```
for(int j=i;j<total;j++)</pre>
                                    {
                                    arr1[j]=arr1[j+1];
                                    arr2[j]=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
```

```
int main()
cout<<endl;
cout<<endl;
glob.menu();
}
_____
//menu function defination
void global::menu(){
```

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

{

```
cout<<endl;
cout<<endl;
cout<<endl;
cout<<"-----" <<endl;
cout<<endl;
cout<<"Enter your options"<<endl;</pre>
cout<<endl;
cout<<"(I) Press 0 to << view course information :"<<endl;</pre>
   cout<<"(II) Press 1 to << enter new data"<<endl;</pre>
   cout<<"(III) Press 2 to << view data"<<endl;</pre>
   cout<<"(IV) Press 3 to << search data"<<endl;
   cout<<"(V) Press 4 to << edit data"<<endl;</pre>
   cout<<"(VI) Press 5 to << delete data"<<endl;
cout<<"(VII) Press 6 to << give marks"<<endl;
   cout<<"(VIII) Press 7 to << exit(logout)"<<endl;
```

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

```
if (year == 1) {
                if (semester == 1) {
cout<<"Information of 1 year 1 semester"<<endl;</pre>
cout<<endl;
    ////here m1 is the object of course class
    //cou() is a member function of course class that helps to give
course informations
                       m1.cou("Physics", "PHY1105", 1, 1);
              m1.cou("Eectrical-circuitsI", "EEE1101", 1, 1);
     m1.cou("Eectrical-circuits LAB I", "EEE1102", 1, 1);
     m1.cou("Mathmatics I","MATH1101",1,1);
     m1.cou("mechanical","ME1101",1,1);
     m1.cou("mechanical lab","ME1102",1,1);
```

m1.cou("physics lab","PHY1106",1,1);

```
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;</pre>
cout<<endl;
                      // 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;</pre>
cout<<endl;
                      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;
                     // 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;</pre>
cout<<endl;
```

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

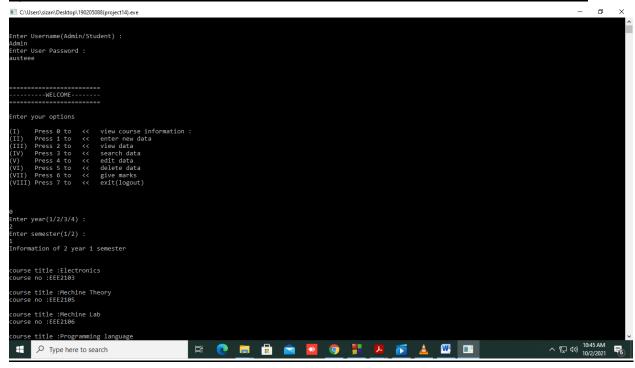
```
cout<<"(II) PRESS 1 TO SEARCH_DATA"<<endl;</pre>
cout<<"(III) PRESS 2 TO SEE DATA AND RESULT SHEET"<<endl;
cout<<"(III) PRESS 3 TO Exit(logout)"<<endl;</pre>
cin>>value1;
cout<<endl;
switch(value1)
{
case 0:
int roll1;
cout<<"Enter your roll no :"<<endl;</pre>
cin>>roll1;
x1.viewResult(roll1);
break;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

```
cout<<endl;
 info.searchInfoAndResult();
 cout<<endl;
 cout<<endl;
 break;
case 3:
cout<<endl;
cout<<endl;
     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;
}
}
```

<u>Screenshots of the solution(console output) of</u> <u>the problem:</u>

1)LOGGED IN AS AN ADMIN AND PRESSED 0 TO SEE COURSE INFO



2)PRESSED 1 TO ENTER DATA(2) BY ADMIN

<u>•</u>

•

•

3)PRESSED 2 TO VIEW DATA

```
Enter Semester : 2

Enter Semester : 2

Enter Journal Octoback (See Section 14)

Enter Journal Octoback (See Section 14)

Enter Journal Octoback (See Section 14)

Enter your options

(1) Press 0 to 

view course information :

(11) Press 10 

(11) Press 10 

(12) Press 10 

view data

(11) Press 2 to 

view data

(11) Press 2 to 

view data

(12) Press 10 

view data

(13) Press 10 

view data

(14) Press 5 to 

view data

(17) Press 5 to 

view data

(18) Press 10 

view data

(19) Press 10 

view data

(10) Press 10 

view data

(10) Press 10 

view data

(11) Press 10 

view data

(12) Press 10 

view data

(13) Press 10 

view data

(14) Press 10 

view data

(15) Press 10 

view data

(16) Press 10 

view data

(17) Press 10 

view data

(18) Press 10 

view data

(19) Press 10 

view data

(10) Press 10 

view data

(10) Press 10 

view data

(10) Press 10 

view data

(11) Press 10 

view data

(11) Press 10 

view data

(12) Press 10 

view data

(13) Press 10 

view data

(14) Press 10 

view data

(15) Press 10 

view data

(16) Press 10 

view data

(17) Press 10 

view data

(18) Press 10 

view data

(19) Press 10 

view data

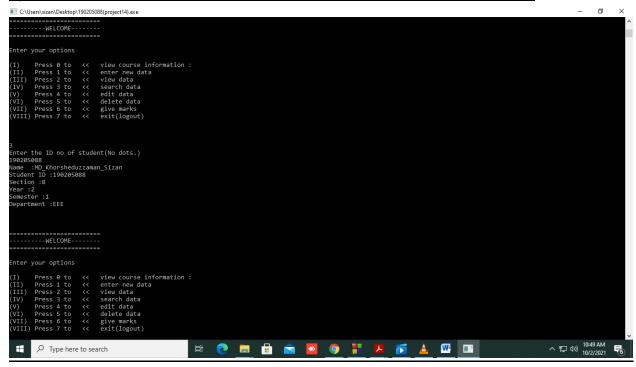
(10) Press 10 

view data

(11) Press 10 

view dat
```

4)PRESSED 3 TO SEARCH A SPECIFIC DATA GIVEN BY ADMIN



5)PRESSED 4 TO UPDATE A DATA OF STUDENT GIVEN BY ADMIN

```
| Columbia | Columbia
```

6)PRESSED 2 TO VIEW AGAIN

7)PRESSED 5 TO DELETE A SPECIFIC DATA

```
Enter your options

Sinter your data to the your options

Sinter your data to the your options

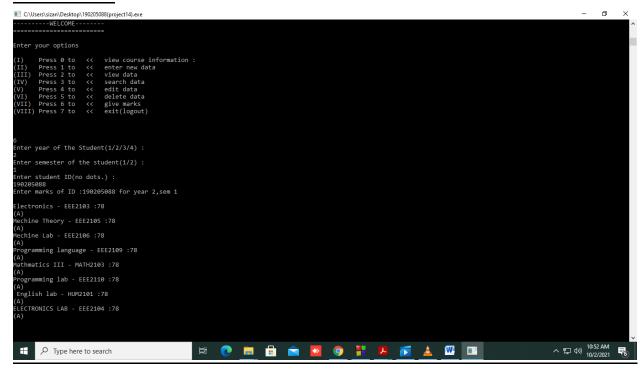
Sinter your data to the your data to the your data to the yo
```

8)PRESSED 2 TO VIEW AGAIN

```
## A Type here to search

## A Type here to
```

9)PRESSED 6 TO GIVE MARKS TO A SPECIFIC STUDENT IN HIS/HER SEM COURSESES

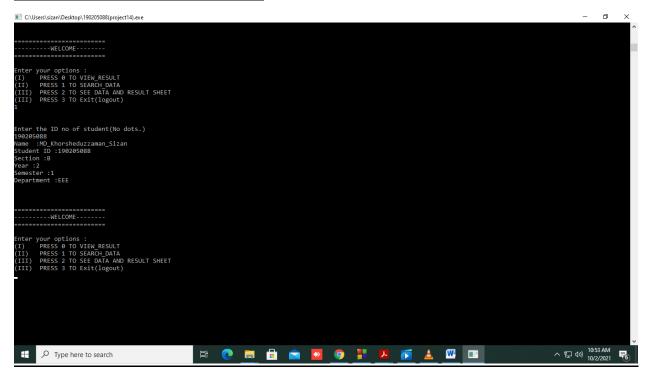


10)ADMIN LOGGED OUT AND STUDENT LOGGED IN ,PRESSED 0 TO SEE HIS RESULT

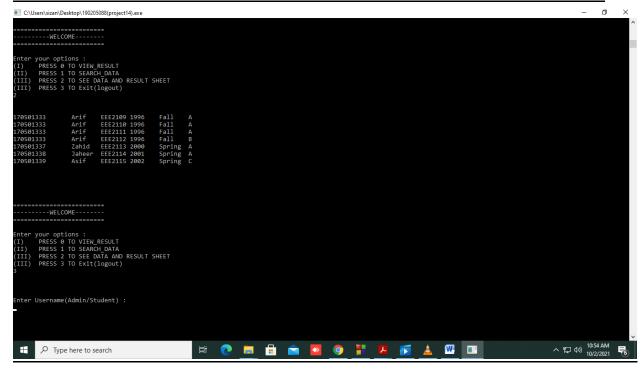
```
| Comparison | Note | N
```

•11)1 TO SEE STUDENT INFO

•



INFORMATONS AND RESULTS AND FINALLY PRESSED 3 TO LOGOUT



Discussion: C++ language was been used in this project .Many classes(courses ,student,result global)were used for better formatting and operation.A global class was been used and all the other elements are incide this class. Becides functions loops, arrays, switch statement, if else statement etc. were used for different purposes .Here 6 arrays were used for 6 different type of datas .Switch statements were used to take options from users .A text file named grading.txt is been used to show the data & result sheet from that file by file handling. The main function of this programe 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.