STUDENT MANAGEMENT SYSTEM PROJECT



Spring 2022
CSE-102L COMPUTER PROGRAMMING LAB

Group Members

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"On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work."

Submitted to:

Engr. Abdullah Hamid (27 July 2022)

Department of Computer Systems Engineering University of Engineering and Technology, Peshawar

STUDENT MANAGEMENT SYSTEM PROJECT

Description:

Student Management System is a simple C++ program designed for educational institutions to manage student data and a variety of other student-related data needs. The user can build, show, search, and modify student data in this Student Management System project.

A Student Information System is another name for a Student Management System (SIS). These technologies let faculty members plan their schedules and communicate with one another about students. This approach was created to make data tracking easier for both parents and administrative personnel.

* Objective:

The Student Management System's major goal is to keep track of Profiles, Courses, Logins, Exams, and Fees. It keeps track of all information pertaining to Profiles, Students, Fees, and Profiles. Because the project is entirely constructed at the administrative level, only the administrator has access.

❖ Topics Used From Course:

- Data structure
- Functions
- Arrays
- Variables
- Loops
- If-else statement
- Switch statement

Features of Student Management System:

1. Storage of student data:

This feature enables us to enter students' data and store it in the program. e.g. name, roll number, course semester, etc.

2. Show data on the screen

This feature enables us to display all the stored data in the program

3. Search for data

This feature enables us to search data of specific students by entering the roll number of a specific student

4. Update data

This feature enables us to update or make changes in the existing stored data of a specific student in the program

5. Delete data

This feature enables us to delete all the stored data in the program or delete data of a specific student by entering the roll number of that student

❖ Project Code: CP PROJECT WASEEM AND SAEEQ.cpp - Code::Blocks 20.03 File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help Start here X CP PROJECT WASEEM AND SAEEQ.cpp X #include<iostream> using namespace std; =struct{ string rollno,contact,Semester,course,name; }data[1000]; int total=0; 10 11 12 -woid enter() { 13 14 int ch=0; 15 16 cout<<"How many students do u want to enter??"<<endl;</pre> 17 18 cin>>ch; 20 **if**(total==0){ 21 22 total=ch+total; 23 24 = 25 for(int i=0;i<ch;i++){</pre> cout<<"\nEnter the Data of student "<<i+1<<endl<<endl;</pre> 26 27 28 cout<<"Enter name ";</pre> 30 cin>>data[i].name; 🔡 🔎 📦 🧔 🖷 😍 🐫 CP PROJECT WASEEM AND SAEEQ.cpp - Code::Blocks 20.03 O File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help Start here X CP PROJECT WASEEM AND SAEEQ.cpp X 31 cout<<"\nEnter Roll no ";</pre> 32 33 34 cin>>data[i].rollno; 35 cout<<"Enter course ";</pre> 36 37 38 cin>>data[i].course; 40 cout<<"Enter Semesters ";</pre> 41 42 cin>>data[i].Semester; 43 44 cout<<"Enter contact ";</pre> 45 46 cin>>data[i].contact;}} 47 48 else 49 50 for(int i=total;i<ch+total;i++) {</pre> cout<<"\nEnter the Data of student "<<i+1<<endl<<endl;</pre> 53 54 cout<<"Enter name ";</pre> 55 56 cin>>data[i].name; 57 cout<<"\nEnter Roll no ";</pre> 58 59 cin>>data[i].rollno; 60 32°C Haze 🔡 🔎 📦 🧔 📮 🕲 🖔

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     61
                             cout<<"Enter course ";</pre>
     62
     63
     64
                             cin>>data[i].course;
     65
                             cout<<"Enter Semesters ";</pre>
     67
     68
                             cin>>data[i].Semester;
     69
                             cout<<"Enter contact ";</pre>
     70
     71
     72
73
                             cin>>data[i].contact;}
     74
                             total=ch+total;}}
     75
     76
         ─void show(){
     78
                if(total==0){
     79
     80
                     cout<<"No data is entered"<<endl;}</pre>
     81
     82
                else{
     83
     84
                    for(int i=0;i<total;i++){</pre>
                             cout<<"******
     85
     86
     87
                             cout<<"\nDATA OF STUDENT NO."<<i+1<<end1;</pre>
     88
                              cout<<"*****************************
     89
     90
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                                                                                                                                      0
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     91
                             cout<<"\nName "<<data[i].name<<endl;</pre>
     92
                             cout<<"Roll no "<<data[i].rollno<<endl;</pre>
     93
     94
     95
                             cout<<"Course "<<data[i].course<<endl;</pre>
     96
     97
                             cout<<"Semesters "<<data[i].Semester<<endl;</pre>
     98
     99
                             cout<<"Contact "<<data[i].contact<<endl;}}}</pre>
    100
    102
    103
                if(total==0){
    104
    105
                    cout<<"No data is entered"<<endl;}</pre>
    106
    107
                else
    108
    109
                string roll no;
    110
    111
                             cout<<"Enter the roll no of student"<<endl;</pre>
    112
    113
                             cin>>roll_no;
    114
    115
                             for(int i=0;i<total;i++){</pre>
    116
                                  if(roll no==data[i].rollno){
    117
    118
                                      119
    120

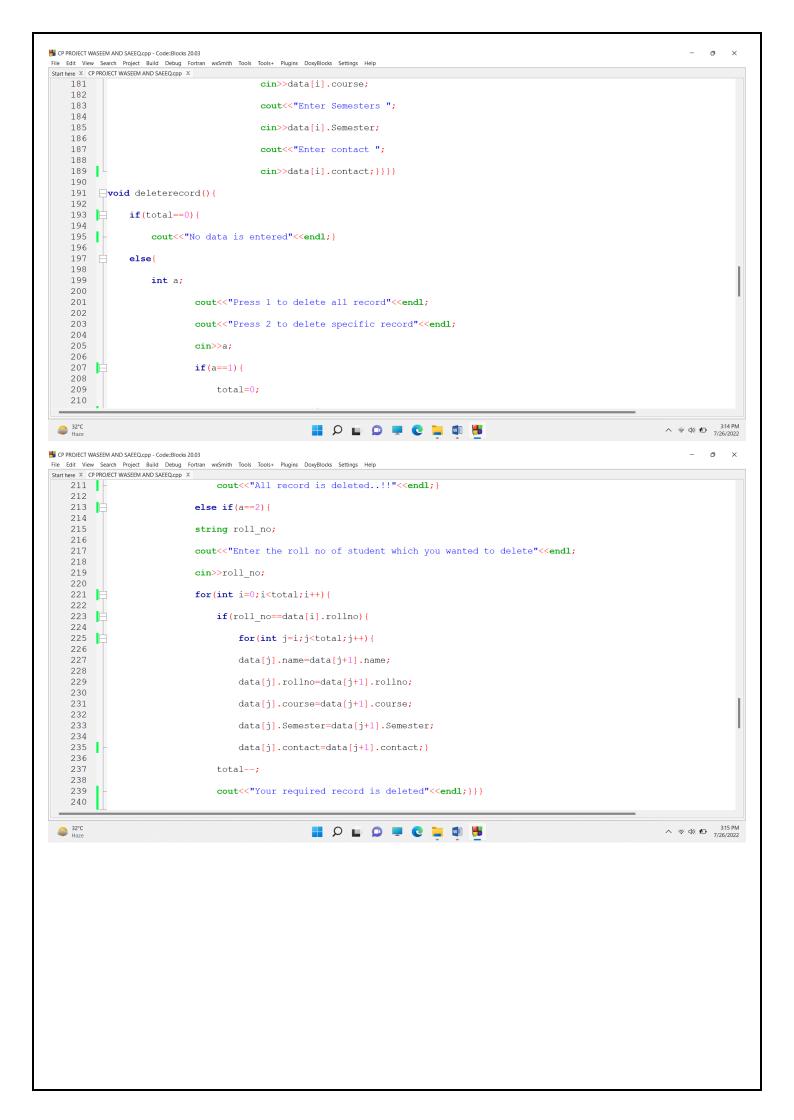
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    121
                                      cout<<"Name "<<data[i].name<<endl;</pre>
    122
    123
                                      cout<<"Roll no "<<data[i].rollno<<endl;</pre>
    124
    125
                                      cout<<"Course "<<data[i].course<<endl;</pre>
    126
    127
                                      cout<<"Semesters "<<data[i].Semester<<endl;</pre>
    128
    129
                                      cout<<"Contact "<<data[i].contact<<endl;</pre>
    130
    131
                                      132
    133 —void update(){
    134
    135
                if(total==0){
    136
    137
                     cout<<"No data is entered"<<endl;}</pre>
    138
    139
                else{
    140
    141
                     string roll_no;
    142
                             cout<<"Enter the roll no of student which you want to update"<<endl;</pre>
    143
    144
    145
                             cin>>roll no;
    146
    147
                                  for(int i=0;i<total;i++) {</pre>
    148
    149
                                  if(roll no==data[i].rollno){
    150
  32°C
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                                      cout<<"****************************
    151
    152
                                      cout<<"\nPrevious data"<<endl<<endl;</pre>
    153
    154
    155
                                      cout<<"Data of Student "<<i+1<<endl;</pre>
    156
    157
                                      cout<<"Name "<<data[i].name<<endl;</pre>
    158
    159
                                      cout<<"Roll no "<<data[i].rollno<<endl;</pre>
    160
    161
                                      cout<<"Course "<<data[i].course<<endl;</pre>
    162
    163
                                      cout<<"Semesters "<<data[i].Semester<<end1;</pre>
    164
    165
                                      cout<< "Contact "<<data[i].contact<<endl;</pre>
    166
                                      167
    168
    169
                                      cout<<"\nEnter new data"<<endl<<endl;</pre>
    170
    171
                                           cout<<"Enter name ";</pre>
    172
    173
                                           cin>>data[i].name;
    174
                                           cout<<"Enter Roll no ";</pre>
    175
    176
    177
                                           cin>>data[i].rollno;
    178
                                           cout<<"Enter course ";</pre>
    179
    180

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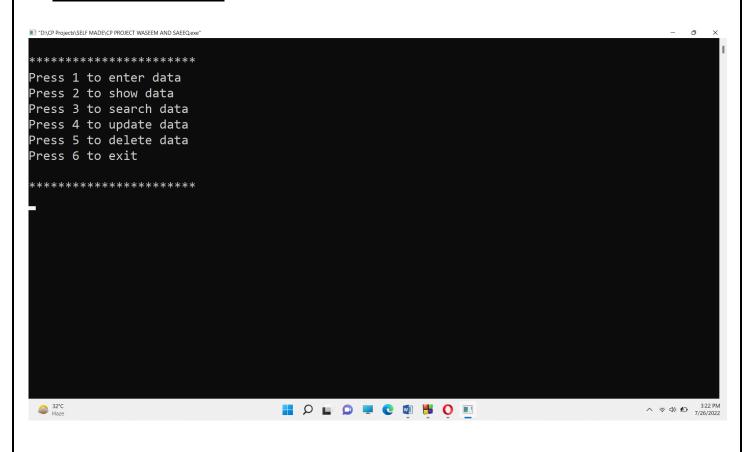
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    241
                          else{
    242
    243
                              cout<<"Invalid input";}}}</pre>
    244
    245 ⊟main(){
    246
    247
                 int value;
    248
    249
250
                 while(true) {
                 cout<<"\n********************
    251
    252
    253
                 cout<<"\nPress 1 to enter data"<<endl;</pre>
    254
    255
                 cout<<"Press 2 to show data"<<endl;</pre>
    256
    257
                 cout<<"Press 3 to search data"<<endl;</pre>
    258
    259
                 cout<<"Press 4 to update data"<<endl;</pre>
    260
    261
                 cout<<"Press 5 to delete data"<<endl;</pre>
    262
                 cout<<"Press 6 to exit"<<endl;</pre>
    263
    264
                 cout<<"\n*********************************
    265
    266
    267
                 cin>>value;
    268
                 system("cls");
    270
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Start here X CP PROJECT WASEEM AND SAEEQ.cpp X
    271
                 switch(value) {
    272
    273
                     case 1:
    274
    275
                          enter();
    276
    277
                         break;
    278
    279
                     case 2:
    280
    281
                          show();
    282
    283
                          break;
    284
    285
                     case 3:
    286
                          search();
    287
    288
    289
                          break;
    290
    291
                     case 4:
    292
    293
                          update();
    294
    295
                          break;
    296
    297
                     case 5:
    298
    299
                          deleterecord();
    300

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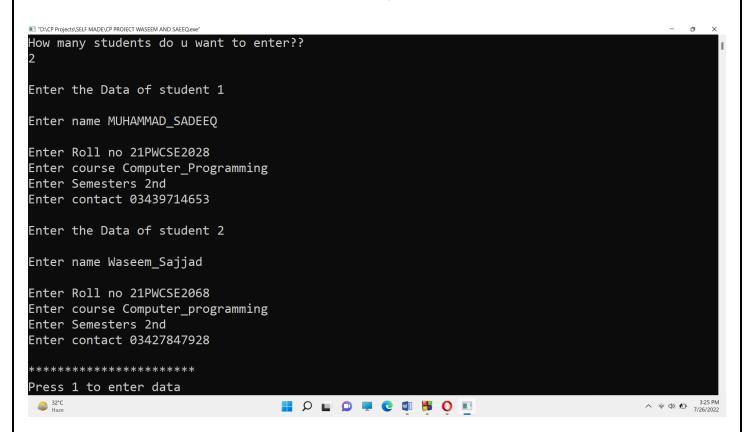
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Start here X CP PROJECT WASEEM AND SAEEQ.cpp X
    285
                     case 3:
    286
    287
                          search();
    288
                          break;
    290
    291
                     case 4:
    292
    293
                          update();
    294
    295
                         break;
    296
    297
                     case 5:
    298
    299
                         deleterecord();
    300
                          break;
    302
    303
                     case 6:
    304
                          exit(0);
    305
    306
                         break;
    307
    308
                     default:
    309
    310
                          cout<<"Invalid input"<<endl;</pre>
    311
    312
    313
                          break;}}
    314
                                                                                                                                  🔡 🔎 📦 🧔 📮 🐧 👭
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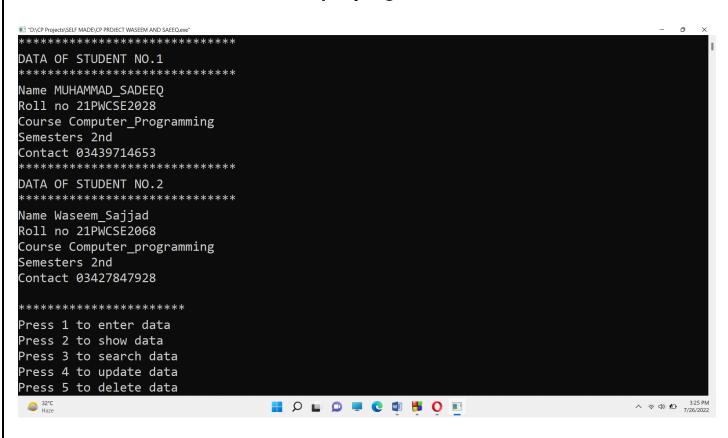
❖ Project Output:



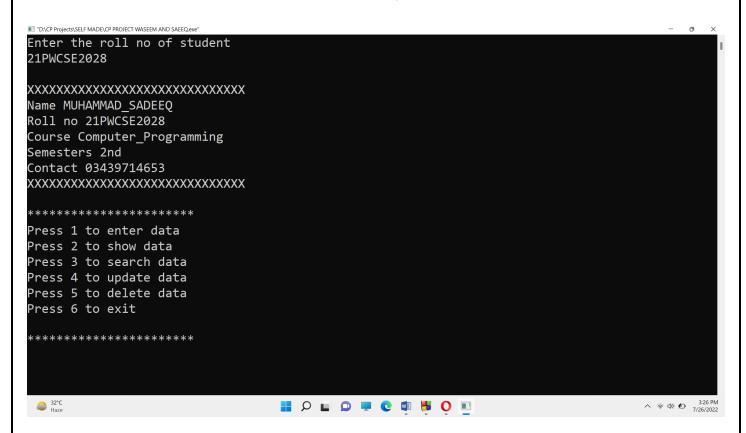
Entering data



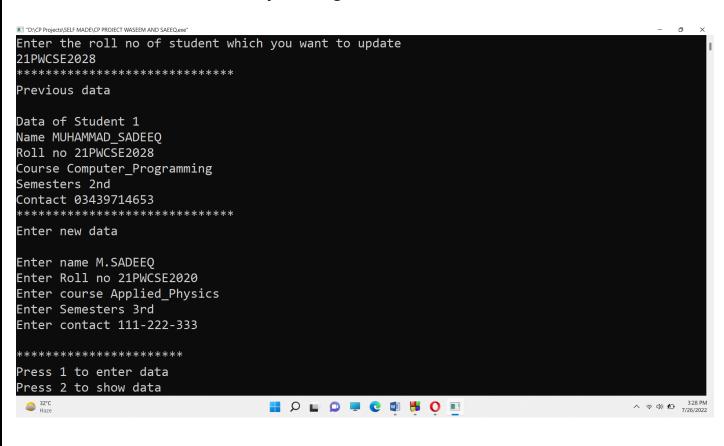
Displaying data



Searching data



Updating student data



Deleting data