

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
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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

6. Calculating student fee

This program has the ability to calculate student fee according to selected department, HSSC percentage, and self-finance (yes or no)

❖ Project Code:

The screenshot shows the Code::Blocks IDE interface with the title bar "again again project - Copy.cpp - Code::Blocks 20.03". The menu bar includes File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, and Help. The code editor displays the following C++ code:

```
1 #include<iostream>
2
3 using namespace std;
4
5 struct{
6     string rollno,contact,self,name;
7     int Department,marks;
8 }data[1000];
9
10 int total=0;
11
12 int per(int x){
13     return x*0.09090909090;
14 }
15
16 int fee(int s,string se) {
17     int fee;
18     if(s==1&&se=="yes") {
19         fee=150000;
20     } else if(s==2&&se=="yes") {
21         fee=60000;
22     } else if(s==3&&se=="yes") {
23         fee=50000;
24     } else if(s==4&&se=="yes") {
25         fee=75000;
26     } else if(s==5&&se=="yes") {
27         fee=100000;
28     }
29     if(s==1&&se=="no") {
30         fee=84000;
31     }
32 }
33
34
35
36
37
38
39
40
41
42 void depart(int x){
43
44     switch(x){
45         case 1:
46             cout<<"Computer systems department";
47             break;
48
49         case 2:
50             cout<<"Electrical department";
51             break;
52
53         case 3:
54             cout<<"Mechanical    department";
55             break;
56
57         case 4:
58             cout<<"Civil department";
59             break;
60 }
```

The status bar at the bottom shows "27°C Haze" on the left and "12:46 PM 8/1/2022" on the right.

The screenshot shows the Code::Blocks IDE interface with the title bar "again again project - Copy.cpp - Code::Blocks 20.03". The menu bar includes File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, and Help. The code editor displays the following C++ code:

```
31     else if(s==2&&se=="no") {
32         fee=40000;
33     } else if(s==3&&se=="no") {
34         fee=35000;
35     } else if(s==4&&se=="no") {
36         fee=45000;
37     } else if(s==5&&se=="no") {
38         fee=90000;
39
40     return fee;
41 }
42
43
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
```

The status bar at the bottom shows "27°C Haze" on the left and "12:47 PM 8/1/2022" on the right.

again again project - Copy.cpp - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here X again again project - Copy.cpp X

```
61     case 5:  
62         cout<<"IT department";  
63         break;  
64     }  
65 }  
66  
67 void enter(){  
68     int ch=0;  
69  
70     cout<<"How many students do u want to enter?"<<endl;  
71  
72     cin>>ch;  
73  
74     if(total==0){  
75  
76         total=ch+total;  
77  
78         for(int i=0;i<ch;i++){  
79             cout<<"\nEnter the Data of student "<<i+1<<endl<<endl;  
80  
81             cout<<"Enter name ";  
82  
83             cin>>data[i].name;  
84  
85             do{  
86                 cout<<"HSSC Marks = ";  
87  
88             }while(data[i].marks<0||data[i].marks>1100);  
89  
90             cout>>data[i].marks;
```

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again again project - Copy.cpp - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here X again again project - Copy.cpp X

```
91     cin>>data[i].marks;  
92  
93     if(data[i].marks>1100||data[i].marks<0)  
94  
95         cout<<"\nincorrect Marks\ntry again\n";  
96  
97     while(data[i].marks<0||data[i].marks>1100);  
98  
99     cout<<"\nEnter Roll no ";  
100  
101    cin>>data[i].rollno;  
102  
103    cout<<"\nxxxxxxxxxxxxxxxxxxxxx\n1.Computer systems department\n2.Electrical department\n3.Mechanical";  
104  
105    while(data[i].Department>5||data[i].Department<=0){  
106  
107        cout<<"Enter Departments number = ";  
108  
109        cin>>data[i].Department;  
110  
111        if(data[i].Department>5||data[i].Department<=0)  
112  
113            cout<<"invalid Department number\nTry again\n";  
114  
115    }  
116  
117    do{  
118        cout<<"on Self Finance yes or no = ";  
119  
120    }while(data[i].SelfFinance>1||data[i].SelfFinance<0);
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
121     cin>>data[i].self;
122
123     if(data[i].self!="yes"&&data[i].self!="no")
124
125         cout<<"\nType yes or no\nTry again\n"; } while(data[i].self!="yes"&&data[i].self!="no");
126
127     cout<<"Enter contact ";
128
129     cin>>data[i].contact; }
130
131 else{
132
133     for(int i=total;i<ch+total;i++) {
134
135         cout<<"nEnter the Data of student "<<i+1<<endl<<endl;
136
137         cout<<"Enter name ";
138
139         cin>>data[i].name;
140
141         do{
142
143             cout<<"HSSC Marks = ";
144
145             cin>>data[i].marks;
146
147             if(data[i].marks>1100||data[i].marks<0)
148
149                 cout<<"\nincorrect Marks\nTry again\n";
150 }
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
151     } while(data[i].marks<0||data[i].marks>1100);
152
153     cout<<"nEnter Roll no ";
154
155     cin>>data[i].rollno;
156
157     cout<<"\xxxxxxxxxxxxxxxxxxxxx\n1.Computer systems department\n2.Electrical department\n3.Mechanical
158
159     while(data[i].Department>5||data[i].Department<=0) {
160
161         cout<<"Enter Departments number = ";
162
163         cin>>data[i].Department;
164
165         if(data[i].Department>5||data[i].Department<=0)
166
167             cout<<"invalid Department number\nTry again\n";
168
169     }
170
171     do{
172
173         cout<<"on Self Finance yes or no = ";
174
175         cin>>data[i].self;
176
177         if(data[i].self!="yes"&&data[i].self!="no")
178
179             cout<<"\nType yes or no\nTry again\n"; } while(data[i].self!="yes"&&data[i].self!="no");
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
181         cout<<"Enter contact ";
182
183         cin>>data[i].contact;
184
185         total=ch+total;}}
186
187 void show(){
188
189     if(total==0){
190
191         cout<<"No data is entered"<<endl;
192
193     else{
194
195         for(int i=0;i<total;i++){
196             cout<<"*****";
197
198             cout<<"\nDATA OF STUDENT NO."<<i+1<<endl;
199
200             cout<<"*****";
201
202             cout<<"\nName "<<data[i].name<<endl;
203
204             cout<<"Roll no "<<data[i].rollno<<endl;
205
206             cout<<"HSSC percentage = "<<per(data[i].marks)<<" %<<endl;
207
208             cout<<"Departments ";
209
210             depart(data[i].Department);
211
212         }
213
214         if(per(data[i].marks)>=90&&per(data[i].marks)<=100){
215
216             cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
217
218             cout<<"50% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.5<<endl;
219
220             cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department,data[i]);
221
222         else if(per(data[i].marks)>=80&&per(data[i].marks)<90){
223
224             cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
225
226             cout<<"25% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.25<<endl;
227
228             cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department,data[i]);
229
230         else{
231
232             cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
233
234             cout<<"No Scholarship "<<endl;
235
236             cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
237
238         }
239
240         cout<<"Contact "<<data[i].contact<<endl;}}}
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
211
212     if(per(data[i].marks)>=90&&per(data[i].marks)<=100){
213
214         cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
215
216         cout<<"50% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.5<<endl;
217
218         cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department,data[i]);
219
220     }
221
222     else if(per(data[i].marks)>=80&&per(data[i].marks)<90){
223
224         cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
225
226         cout<<"25% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.25<<endl;
227
228         cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department,data[i]);
229
230     }
231
232     else{
233
234         cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
235
236         cout<<"No Scholarship "<<endl;
237
238         cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
239
240     }
241
242     cout<<"Contact "<<data[i].contact<<endl;}}
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
241
242     void search() {
243
244         if(total==0) {
245
246             cout<<"No data is entered"<<endl;
247
248         } else {
249
250             string roll_no;
251
252             cout<<"Enter the roll no of student"<<endl;
253
254             cin>>roll_no;
255
256             for(int i=0;i<total;i++) {
257
258                 if(roll_no==data[i].rollno) {
259
260                     cout<<"\nXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX";
261
262                     cout<<"Name " <<data[i].name<<endl;
263
264                     cout<<"Roll no " <<data[i].rollno<<endl;
265
266                     cout<<"HSSC percentage = "<<per(data[i].marks)<< "%<<endl;
267
268                     cout<<"Departments ";
269
270                     depart(data[i].Department);
271
272
273
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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
271
272     if(per(data[i].marks)>=90&&per(data[i].marks)<=100) {
273
274         cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
275
276         cout<<"50% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.5<<endl;
277
278         cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department,data[i].self)*0.5<<endl;
279
280     }
281
282     else if(per(data[i].marks)>=80&&per(data[i].marks)<90) {
283
284         cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
285
286         cout<<"25% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.25<<endl;
287
288         cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department,data[i].self)*0.25<<endl;
289     }
290     else {
291
292         cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
293
294         cout<<"No Scholarship ";
295
296         cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
297     }
298
299
300
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
301 cout<<"XXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXXX\n"; }}}
```

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins Doxygen Settings Help

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
331 cout<<"HSSC percentage = "<<per(data[i].marks)<< " %<<endl;
332 cout<<"Departments ";
333 depart(data[i].Department);
334
335 if(per(data[i].marks)>=90&&per(data[i].marks)<=100) {
336     cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
337     cout<<"50% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.5<<endl;
338     cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department);
339 }
340
341 else if(per(data[i].marks)>=80&&per(data[i].marks)<90) {
342     cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
343     cout<<"25% Scholarship = Rs "<<fee(data[i].Department,data[i].self)*0.25<<endl;
344     cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)-fee(data[i].Department);
345 }
346
347 else {
348     cout<<"\nStudent fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
349     cout<<"No Scholarship "<<endl;
350 }
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
361             cout<<"total student fee = Rs "<<fee(data[i].Department,data[i].self)<<endl;
362
363
364             cout<<"Contact "<<data[i].contact<<endl;
365
366             cout<<"*****";
367
368             cout<<"\nEnter new data"<<endl<<endl;
369
370             cout<<"Enter name ";
371
372             cin>>data[i].name;
373
374             do{
375
376                 cout<<"HSSC Marks = ";
377
378                 cin>>data[i].marks;
379
380                 if(data[i].marks>1100||data[i].marks<0)
381
382                     cout<<"\nincorrect Marks\ntry again\n";
383
384             }while(data[i].marks<0||data[i].marks>1100);
385
386
387             cout<<"Enter Roll no ";
388
389             cin>>data[i].rollno;
390
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
391             cout<<"\nxxxxxxxxxxxxxxxxxxxxx\n1.Computer systems department\n2.Electrical department\n";
392
393
394             while(data[i].Department>5||data[i].Department<=0){
395
396                 cout<<"Enter Departments number = ";
397
398                 cin>>data[i].Department;
399
400                 if(data[i].Department>5||data[i].Department<=0)
401
402                     cout<<"invalid Department number\nTry again\n";
403
404             do{
405
406                 cout<<"on Self Finance yes or no = ";
407
408                 cin>>data[i].self;
409
410                 if(data[i].self!="yes"&&data[i].self!="no")
411
412                     cout<<"\nType yes or no\ntry again\n";}while(data[i].self!="yes"&&data[i].self!="no");
413
414
415             cout<<"Enter contact ";
416
417             cin>>data[i].contact;}}}
418
419             void deleterecord(){
420
421                 if(total==0){
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
421
422     cout<<"No data is entered"<<endl;
423
424     else{
425
426         int a;
427
428         cout<<"Press 1 to delete all record"<<endl;
429
430         cout<<"Press 2 to delete specific record"<<endl;
431
432         cin>>a;
433
434         if(a==1){
435
436             total=0;
437
438             cout<<"All record is deleted..!!!"<<endl;
439
440         else if(a==2){
441
442             string roll_no;
443
444             cout<<"Enter the roll no of student which you wanted to delete"<<endl;
445
446             cin>>roll_no;
447
448             for(int i=0;i<total;i++){
449
450                 if(roll_no==data[i].rollno){
```

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again again project - Copy.cpp - Code::Blocks 20.03

```
Start here X again again project - Copy.cpp X
451
452     for(int j=i;j<total;j++){
453
454         data[j].name=data[j+1].name;
455
456         data[j].rollno=data[j+1].rollno;
457
458         data[j].Department=data[j+1].Department;
459
460         data[j].self=data[j+1].self;
461
462         data[j].contact=data[j+1].contact;
463
464     total--;
465
466     cout<<"Your required record is deleted"<<endl;})}
467
468     else{
469
470         cout<<"Invalid input";})
471
472 main(){
473
474     int value;
475
476     while(true){
477
478         cout<<"\n*****";
479
480         cout<<"\nPress 1 to enter data"<<endl;
```

27°C Haze 12:53 PM 8/1/2022

again again project - Copy.cpp - Code::Blocks 20.03

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Start here X again again project - Copy.cpp X

```
481 cout<<"Press 2 to show data"<<endl;
482 cout<<"Press 3 to search data"<<endl;
483 cout<<"Press 4 to update data"<<endl;
484 cout<<"Press 5 to delete data"<<endl;
485 cout<<"Press 6 to exit"<<endl;
486 cout<<"\n*****"<<endl;
487 cin>>value;
488 system("cls");
489 switch(value) {
490     case 1:
491         enter();
492         break;
493     case 2:
494         show();
495         break;
496 }
```

27°C Haze 12:53 PM 8/1/2022

again again project - Copy.cpp - Code::Blocks 20.03

File Edit View Search Project Build Debug Fortran wxSmith Tools Tools+ Plugins DoxyBlocks Settings Help

Start here X again again project - Copy.cpp X

```
511 case 3:
512     search();
513     break;
514 case 4:
515     update();
516     break;
517 case 5:
518     deleterecord();
519     break;
520 case 6:
521     exit(0);
522     break;
523 default:
524     cout<<"Invalid input"<<endl;
525     break; } }
```

27°C Haze 12:54 PM 8/1/2022

The screenshot shows the Code::Blocks IDE interface. The menu bar includes File, Edit, View, Search, Project, Build, Debug, Fortran, wxSmith, Tools, Tools+, Plugins, DoxyBlocks, Settings, and Help. The main window displays a code editor with the following C++ code:

```
Start here X again again project - Copy.cpp x
512     case 3:
513
514         search();
515
516         break;
517
518     case 4:
519
520         update();
521
522         break;
523
524     case 5:
525
526         deleterecord();
527
528         break;
529
530     case 6:
531
532         exit(0);
533
534         break;
535
536     default:
537
538         cout<<"Invalid input"<<endl;
539
540         break; } }
```

The status bar at the bottom shows the temperature as 27°C and the date/time as 12:54 PM 8/1/2022.

❖ Project Output:

The screenshot shows a Windows terminal window titled "D:\CP Projects\MADE\again again project - Copy.exe". The output displayed is:

```
*****  
Press 1 to enter data  
Press 2 to show data  
Press 3 to search data  
Press 4 to update data  
Press 5 to delete data  
Press 6 to exit  
*****
```

The status bar at the bottom shows the temperature as 27°C and the date/time as 12:56 PM 8/1/2022.

Entering data

```
1 Select "D:\CP Projects\MADE\again again project - Copy.exe"
How many students do u want to enter??
2

Enter the Data of student 1
Enter name waseem
HSSC Marks = 900

Enter Roll no 1
xxxxxxxxxxxxxxxxxxxxxx
1.Computer systems department
2.Electrical department
3.Mechanical department
4.Civil department
5.IT department
xxxxxxxxxxxxxxxxxxxxxx

Enter Departments number = 1
on Self Finance yes or no = no
Enter contact 93274823

Enter the Data of student 2
Enter name sadeeq
HSSC Marks = 600

Enter Roll no 2
xxxxxxxxxxxxxxxxxxxxxx
1.Computer systems department
2.Electrical department
3.Mechanical department
4.Civil department
5.IT department
xxxxxxxxxxxxxxxxxxxxxx

Enter Departments number = 3
on Self Finance yes or no = no
Enter contact 02384289343
```



1:01 PM
8/1/2022

Displaying data

```
1 "D:\CP Projects\MADE\again again project - Copy.exe"
*****
DATA OF STUDENT NO.1
*****
Name waseem
Roll no 1
HSSC percentage = 81 %
Departments Computer systems department
Student fee = Rs 84000
25% Scholarship = Rs 21000
total student fee = Rs 63000
Contact 93274823
*****
DATA OF STUDENT NO.2
*****
Name sadeeq
Roll no 2
HSSC percentage = 54 %
Departments Mechanical department
Student fee = Rs 35000
No Scholarship
total student fee = Rs 35000
Contact 02384289343

*****
Press 1 to enter data
Press 2 to show data
Press 3 to search data
Press 4 to update data
Press 5 to delete data
Press 6 to exit
*****
```



1:01 PM
8/1/2022

Searching data

```
1 "D:\CP Projects\MADE\again again project - Copy.exe"
Enter the roll no of student
1

XXXXXXXXXXXXXXXXXXXXXXXXXXXXX
Name waseem
Roll no 1
HSSC percentage = 81 %
Departments Computer systems department
Student fee = Rs 84000
25% Scholarship = Rs 21000
total student fee = Rs 63000
Contact 93274823
XXXXXXXXXXXXXXXXXXXXXXXXXXXXX

*****
Press 1 to enter data
Press 2 to show data
Press 3 to search data
Press 4 to update data
Press 5 to delete data
Press 6 to exit

*****
```



Updating student data

```
1 "D:\CP Projects\MADE\again again project - Copy.exe"
Enter the roll no of student which you want to update
45
*****
Previous data

Data of Student 1
Name SADEEQ
Roll no 45
HSSC percentage = 91 %
Departments Computer systems department
Student fee = Rs 84000
50% Scholarship = Rs 42000
total student fee = Rs 42000
Contact 3928130
*****
Enter new data

Enter name WASEEM
HSSC Marks = 900
Enter Roll no 12

XXXXXXXXXXXXXXXXXXXXXX
1.Computer systems department
2.Electrical department
3.Mechanical department
4.Civil department
5.IT department
XXXXXXXXXXXXXXXXXXXXXX

on Self Finance yes or no = 5

type yes or no
try again
on Self Finance yes or no = no
Enter contact 32847283
```



Deleting data

```
1 "D:\CP Projects\MADE\again again project - Copy.exe"
Press 1 to delete all record
Press 2 to delete specific record
2
Enter the roll no of student which you wanted to delete
12
Your required record is deleted

*****
Press 1 to enter data
Press 2 to show data
Press 3 to search data
Press 4 to update data
Press 5 to delete data
Press 6 to exit

*****
```

27°C
Haze



1:08 PM
8/1/2022