



# **CP Lab**

Assignment 01

**SE-102**

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**Submitted by**

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## Question:

Make a program that uses a structure named student and contains two members namely **Roll number** and **CP Score**. Roll number should be initialized at the start of program. User can enter CP Score of **at most 3 students**. Make use of **switch statement**, **do while loop** or **goto** to repeatedly display the main menu.

Answer:

The c++ code is as follows:

```
#include<iostream>
#include<iomanip>
using namespace std;
struct student
{ string rollno;
  int cp_score;
};
int main()
{ int choice=3;
  student s1,s2,s3;
  s1={"0",0};
  s2={"0",0};
  s3={"0",0};

  do{ menu:
    cout<<endl<<endl<<setfill('*')<<setw(25)<<""<<" Main Menu "<<setw(25)<<""<<endl;
    cout<<setfill(' ');
    cout<<endl<<setw(50)<< "Press 1 to Enter Student Record"<<endl;
    cout<<endl<<setw(52)<< "Press 2 to Display Student Record"<<endl;
    cout<<endl<<setw(37)<< "Press 3 to Exit : ";
    cin >> choice;
    switch(choice){
    case 1:

      cout<<endl<<setw(49)<< "Press 1 For 1st Student Record";
```

```

cout<<endl<<setw(49)<< "Press 2 For 2nd Student Record";
cout<<endl<<setw(49)<< "Press 3 For 3rd Student Record";
cout<<endl<<setw(50)<< "Press 4 For Return to Main Menu";
cout<<endl<<setw(34)<< "Press 5 To Exit"<<endl;
sub_menu:
cout <<endl<< "Enter your choice: ";
int studentChoice;
cin >> studentChoice;
switch(studentChoice){
case 1:
    cout<<"Enter 1st Student Record:";
    cout<<endl<<"Registration No:";
    cin>>s1.rollno;
    cout<<endl<<"CP Marks:";
    cin>>s1.cp_score;
    goto sub_menu;
case 2:
    cout<<"Enter 2nd Student Record:";
    cout<<endl<<"Registration No:";
    cin>>s2.rollno;
    cout<<endl<<"CP Marks:";
    cin>>s2.cp_score;
    goto sub_menu;
case 3:
    cout<<"Enter 3rd Student Record:";
    cout<<endl<<"Registration No:";
    cin>>s3.rollno;
    cout<<endl<<"CP Marks:";
    cin>>s3.cp_score;
    goto sub_menu;
case 4:
    goto menu;
case 5:
    goto exit;

}
break;
case 2:

```

```

        cout<<endl<<endl<<setw(30)<< "Roll No:"<<setw(25)<< "Marks"<<endl<<endl;
        cout<<setw(30)<<s1.rollno<<setw(23)<<s1.cp_score<<endl;
        cout<<setw(30)<<s2.rollno<<setw(23)<<s2.cp_score<<endl;
        cout<<setw(30)<<s3.rollno<<setw(23)<<s3.cp_score<<endl<<endl;
        break;}
}while(choice!=3);
exit:
return 0;}

```

## CONSOLE

```

"C:\Users\USER\Desktop\C++ Tasks\labProject01.exe"

***** Main Menu *****

Press 1 to Enter Student Record

Press 2 to Display Student Record

Press 3 to Exit : 2

Roll No:           Marks
0                  0
0                  0
0                  0

***** Main Menu *****

Press 1 to Enter Student Record

Press 2 to Display Student Record

Press 3 to Exit : 1

Press 1 For 1st Student Record
Press 2 For 2nd Student Record
Press 3 For 3rd Student Record
Press 4 For Return to Main Menu
Press 5 To Exit

Enter your choice: 1
Enter 1st Student Record:
Registration No:24-SE-27

CP Marks:23

Enter your choice: 4

Enter your choice: 4

***** Main Menu *****

Press 1 to Enter Student Record

Press 2 to Display Student Record

Press 3 to Exit : 2

Roll No:           Marks
24-SE-27           23
24                 25
0                  0

***** Main Menu *****

Press 1 to Enter Student Record

Press 2 to Display Student Record

Press 3 to Exit :

```