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# 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**

