To update the details of a student using a member function of student class.

#include<iostream>

using *namespace* std;

*class* *Student*

{

*private:*

*char* name[20];

*int* dob;

*int* rollno;

*char* branch[20];

*float* marks;

*public:*

*void* setData()

        {

            cout<<"Enter the name of student: ";

            cin>>name;

            cout<<"Enter the dob of student: ";

            cin>>dob;

            cout<<"Enter the rollno of student: ";

            cin>>rollno;

            cout<<"Enter the branch of student: ";

            cin>>branch;

            cout<<"Enter the marks of student: ";

            cin>>marks;

            cout<<endl;

        }

*void* displayData()

        {

            cout<<"Name: "<<name<<endl;

            cout<<"Dob: "<<dob<<endl;

            cout<<"Rollno: "<<rollno<<endl;

            cout<<"Branch: "<<branch<<endl;

            cout<<"Marks: "<<marks<<endl;

            cout<<endl;

        }

*void* updateData()

        {

            cout<<"-----UPDATED INFORMATION-------";

            cout<<"Enter the new name of student: "<<endl;

            cin>>name;

            cout<<"Enter the update Dob of student: "<<endl;

            cin>>dob;

            cout<<"Enter the new roll no of student: "<<endl;

            cin>>rollno;

            cout<<"Enter the new branch of student: "<<endl;

            cin>>branch;

            cout<<"Enter the updated marks of student: "<<endl;

            cin>>marks;

            cout<<endl;

         }

};

*int* main()

{

*Student* s;

    while(1)

    {

*int* n;

        cout<<"Choose operation you want to perfrom: \n";

        cout<<"Press 1 to insert the data of student\n";

        cout<<"Press 2 to update the data of student\n";

        cout<<"Press 3 to display the data of student\n";

        cout<<"Press 4 to exit\n";

        cout<<"Enter your choice: ";

*int* ch;

        cin>>ch;

        switch(ch)

        {

        case 1:

        s.setData();

        break;

        case 2:

        s.updateData();

        break;

        case 3:

        s.displayData();

        break;

        case 4:

        exit(1);

        break;

        default:

        cout<<"------INVALID CHOICE------";

        break;

        }

    }

    return 0;

}

To delete the details of a student using a member function of student class.

#include <iostream>

#include <vector>

using *namespace* std;

*class* *Student* {

*private:*

*string* name;

*string* fatherName;

*string* phoneNumber;

*int* rollNo;

*string* dateOfBirth;

*int* semester,n;

*string* email;

*string* addr;

*public:*

*void* addStudent(*vector*<*Student*>& *students*)

    {

            cout << "Enter the number of students to get added: ";

            cin >> n;

            for (*int* i = 0; i < n; i++)

            {

            cout <<"\n Enter student name: ";

            cin >> name;

            cout << "\n Enter father's name: ";

            cin >> fatherName;

            cout<<"\n Enter Contact number: ";

            cin>>phoneNumber;

            cout<<" \nEnter Date Of Birth:";

            cin>>dateOfBirth;

            cout<<"\n Enter E-mail Id: ";

            cin>>email;

            cout<<"\n Enter Address: ";

            cin>>addr;

            cout<<"\n Enter Roll No: ";

            cin>>rollNo;

            cout<<"\n Enter Semester: ";

            cin>>semester;

*students*.push\_back(\*this);

            }

    }

*void* updateStudent(*vector*<*Student*>& *students*)

         {

*int* updateRollNo;

            cout <<"Enter roll number of the student to be updated: ";

            cin >> updateRollNo;

            for (*int* i = 0; i < *students*.size(); i++) {

                if (*students*[i].rollNo == updateRollNo) {

                    cout << "Enter updated student name: ";

                    cin >> *students*[i].name;

                    cout << "Enter updated father's name: ";

                    cin >> *students*[i].fatherName;

                    cout << "Enter updated contact number: ";

                    cin >> *students*[i].phoneNumber;

                    cout << "Enter updated date of birth : ";

                    cin >> *students*[i].dateOfBirth;

                    cout << "Enter updated email : ";

                    cin >> *students*[i].email;

                    cout << "Enter updated address : ";

                    cin >> *students*[i].addr;

                    cout << "Enter updated semester : ";

                    cin >> *students*[i].semester;

                }

            }

        }

*void* deleteStudent(*vector*<*Student*>& *students*)

        {

*int* deleteRollNo;

            cout << "Enter roll number of the student to be deleted: ";

            cin >> deleteRollNo;

            for (*int* i = 0; i < *students*.size(); i++) {

                if (*students*[i].rollNo == deleteRollNo) {

*students*.erase(*students*.begin() + i);

                }

            }

        }

*void* displayStudents(*vector*<*Student*>& *students*) {

            cout << "Name\tFather's Name\t Contact Number\t Date of Birth\t Email ID\t Address\t Roll Number\t Semester\t\n";

            for (*int* i = 0; i < *students*.size(); i++) {

                cout << *students*[i].name << "\t" << *students*[i].fatherName << "\t\t" << *students*[i].phoneNumber << "\t\t" << *students*[i].dateOfBirth <<"\t\t" <<*students*[i].email <<"\t\t" <<*students*[i].addr << "\t\t" << *students*[i].rollNo<< "\t\t" << *students*[i].semester<< endl;

            }

        }

};

*int* main() {

*vector*<*Student*> students;

*Student* s;

*int* choice;

    do {

        cout << "1. Add student" << endl;

        cout << "2. Update student" << endl;

        cout << "3. Delete student" << endl;

        cout << "4. Display all students" << endl;

        cout << "5. Exit" << endl;

        cout << "\n Enter your choice: ";

        cin >> choice;

        switch(choice) {

            case 1:

                s.addStudent(students);

                break;

            case 2:

                s.updateStudent(students);

                break;

            case 3:

                s.deleteStudent(students);

                break;

            case 4:

                s.displayStudents(students);

                break;

            case 5:

                break;

            default:

                cout << "Invalid choice" << endl;

        }

    } while (choice != 5);

    return 0;

}