

Hamza Ahmad  
2023217-2

Section "D"

```
#include <iostream>
#define stud 2
#define sub 2

using namespace std;
enum Department { Electrical, Mechanical,
                  software, computer_science };
enum EducationLevel { undergraduate, postgraduate };

class course {
public:
    string Name_course;
    string teacher_name;
    string grade;
};

class person {
public:
    string name;
    int reg_no;
    int age;
    EducationLevel Level;
    Department department;
    course COURSE[sub];
    string cric_no;
};
```



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## Section "D"

```
int reply, answer;  
void student() {
```

```
cout << "You can only (add/remove/update)  
student details" << endl;
```

```
person p[stud];  
for (int i=0; i<stud; i++) {  
cout << "t--- student " << i+1 << " ---" << endl;
```

```
cout << "Enter the name:";  
cin >> p[i].name;
```

```
cout << "Enter the Reg-no" << endl;  
cin >> p[i].reg-no;
```

```
cout << "Enter age";  
cin >> p[i].age;
```

```
cout << "Select the Department" << endl;
```

```
cout << "0. Electrical" << endl;
```

```
cout << "1. Mechanical" << endl;
```

```
cout << "2. software" << endl;
```

```
cout << "3. Computer Science" << endl;
```

```
cin >> reply;
```

```
switch (reply) {
```

```
case Electrical:
```

```
cout << "Electrical" << endl;
```

```
break;
```



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```
case Mechanical:  
cout << "Mechanical" << endl;  
break;
```

```
case software:  
cout << "Software" << endl;  
break;
```

```
case Computer-science:  
cout << "Computer Science" << endl;  
break;
```

```
cout << "Select the Education Level" << endl;  
cout << "0. undergraduate" << endl;  
cout << "1. postgraduate" << endl;  
cin >> answer;
```

```
switch (answer) {  
case undergraduate:  
cout << "Undergraduate" << endl;  
break;
```

```
case postgraduate:  
cout << "postgraduate" << endl;  
break;
```



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## Section "D"

```
for (int j=0; j < sub ; j++) {  
    cout << " Enter the name of course "<< j+1 << " ";  
    cin >> p[i]. COURSE[j]. Name-course;  
    cout << " Enter the name of instructor ;  
    cin >> p[i]. COURSE[j]. teacher-name;  
    cout << " Enter the Grade ";  
    cin >> p[i]. COURSE[j]. grade;  
}
```

```
void teacher() {
```

```
    cout << " you can only (add, remove, update)  
            teacher details << endl;
```

```
    person p [stud];
```

```
    for (int i=0; i < stud; i++) {
```

```
        cout << "\t --- Teacher " << i+1 << " --- << endl;
```

```
        cout << "Enter the Name " << endl;
```

```
        cin >> p[i]. name;
```

```
        cout << "Enter the CNIC NO ";
```

```
        cin >> p[i]. cnic-no;
```



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```
cout << "Enter the Age" << endl;
cin >> p[i].age;
```

```
cout << "Select the Department" << endl;
cout << "0. Electrical" << endl;
cout << "1. Mechanical" << endl;
cout << "2. Software" << endl;
cout << "3. Computer Science" << endl;
cin >> reply;
```

```
switch (reply) {
```

```
case Electrical:
cout << "Electrical" << endl;
break;
```

```
case Mechanical:
cout << "Mechanical" << endl;
break;
```

```
case software:
cout << "Software" << endl;
break;
```

```
case computer_science:
cout << "Computer Science" << endl;
break;
```



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Section "D"

```
{  
{  
{  
void ADMIN() {
```

```
int select;
```

```
cout << "You can (add, remove, update) student  
and teacher Detail both << endl;
```

```
cout << "Select One for (add, remove, update) << endl;
```

```
cout << "1. Student" << endl;
```

```
cout << "2. Teacher" << endl;
```

```
cin >> select;
```

```
if (select == 1)
```

```
student();
```

```
if (select == 2)
```

```
teacher();
```

```
else
```

```
cout << "Enter the correct number" << endl;
```

```
}
```



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Section "D"

```
int main(){  
    int select;  
  
    cout<<"\t select One "<<endl;  
    cout<<"\t 1. ADMIN USE \n";  
    cout<<"\t 2. Student USE \n";  
    cout<<"\t 3. Teacher USE \n";  
    cin>>select;  
  
    if (select == 1);  
    ADMIN();  
  
    if (select == 2)  
    student();  
  
    if (select == 3)  
    teacher();  
  
    return 0;  
}
```