

OOP-LAB Task 3

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Dept: BS-CS

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Section : 2D

Qns1:

```
#include<iostream>
```

```
using namespace std;
```

```
struct address{
```

```
    string city;
```

```
    string country;
```

```
};
```

```
struct contact_info{
```

```
    string name;
```

```
    long long int phone_no;
```

```
    address a1;
```

```
};
```

```
void display_contacts(contact_info c1[10]){
```

```
    for(int i=0;i<10;i++){
```

```
        cout <<"\nContact "<<(i+1)<<":\n";
```

```
        cout <<"Name: "<<c1[i].name<<endl;
```

```
        cout <<"Phone NO: "<<c1[i].phone_no<<endl;
```

```
        cout<< "City Name: "<<c1[i].a1.city<<endl;
```

```
        cout<<"Country Name: "<<c1[i].a1.country<<endl;
```

```

    }
}

int main(){

    contact_info contacts[10];

    for(int i=0;i<10;i++){

        cout <<"\nEnter details for contact "<<(i+1)<<":\n";

        cout <<"Enter your name: "<<endl;

        cin>>contacts[i].name;

        cout <<"Enter your Phone Number: "<<endl;

        cin>>contacts[i].phone_no;

        cout<<"Enter Your City Name: "<<endl;

        cin>>contacts[i].a1.city;

        cout<<"Enetr your Country Name: "<<endl;

        cin>>contacts[i].a1.country;

    }

    display_contacts(contacts);

    return 0;

}

```

Output:

Enter details for contact 1:

Enter your name:

azan

Enter your Phone Number:

3173432526

Enter Your City Name:

karachi

Enetr your Country Name:

pakistan

Enter details for contact 2:

Enter your name:

aizaz

Enter your Phone Number:

182389109

Enter Your City Name:

peshawar

Enetr your Country Name:

pakistan

Enter details for contact 3:

Enter your name:

m.qasim

Enter your Phone Number:

023209342

Enter Your City Name:

peshawar

Enetr your Country Name:

pakistan

Enter details for contact 4:

Enter your name:

abdullah

Enter your Phone Number:

9223931083

Enter Your City Name:

washington

```
Contact 5:
Name: suhail
Phone NO: 92394392
City Name: riyadh
Country Name: ksa

Contact 6:
Name: salam
Phone NO: 923920493
City Name: isl
Country Name: pakistan

Contact 7:
Name: ank
Phone NO: 93202342
City Name: lahore
Country Name: pakistan

Contact 8:
Name: ghulam
Phone NO: 9302340234
City Name: khairpur
Country Name: pakistan

Contact 9:
Name: muskan
Phone NO: 2932394223
City Name: gambar
Country Name: pakistan

Contact 10:
Name: zaim
Phone NO: 9234003802
City Name: johar
Country Name: romania
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-3>
```

Qns 2:

```
#include <iostream>

using namespace std;

struct address{

    string city;

    string state;

    int pincode;

};

struct student{

    string name;

    int roll_no;
```

```

    int marks[5];

    address a1;

};

student s_1 = {"Aazan Noor",706,{90,80,70,60,50},{ "Karachi","Sindh",12345}};
student s_2;

```

```

int main(){

    s_2 = s_1;

    cout <<"-----"<<endl;

    cout<<"Student-1:\n";

    cout<<"Name: "<<s_1.name<<endl;

    cout<<"Roll NO: "<<s_1.roll_no<<endl;

    cout<<"Marks: ";

    for(int i=0;i<5;i++){

        cout<<s_1.marks[i]<<" ";

    }

    cout<<endl;

    cout<<"City Name: "<<s_1.a1.city<<endl;

    cout<<"State Name: "<<s_1.a1.state<<endl;

    cout<<"Pincode: "<<s_1.a1.pincode<<endl;

    cout <<"-----"<<endl;

    cout<<"Student-2:\n";

    cout<<"Name: "<<s_2.name<<endl;

    cout<<"Roll NO: "<<s_2.roll_no<<endl;

    cout<<"Marks: ";

    for(int i=0;i<5;i++){

        cout<<s_2.marks[i]<<" ";

    }
}

```

```

cout<<endl;
cout<<"City Name: "<<s_2.a1.city<<endl;
cout<<"State Name: "<<s_2.a1.state<<endl;
cout<<"Pincode: "<<s_2.a1.pincode<<endl;
cout <<"-----"<<endl;
cout <<"Modify student-2 marks: "<<endl;
cout<<"Enter marks :"<<endl;
for(int i=0;i<5;i++){
    cin>>s_2.marks[i];
}
s_1=s_2;
cout <<"-----"<<endl;
cout<<"student-1 details after modifying: "<<endl;
cout<<"Name: "<<s_1.name<<endl;
cout<<"Roll NO: "<<s_1.roll_no<<endl;
cout<<"Marks: ";
for(int i=0;i<5;i++){
    cout<<s_1.marks[i]<<" ";
}
cout <<endl;
cout<<"City Name: "<<s_1.a1.city<<endl;
cout<<"State Name: "<<s_1.a1.state<<endl;
cout<<"Pincode: "<<s_1.a1.pincode<<endl;
return 0;

}

```

Output:

```
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-3> g++ -g qns2.cpp -o ./output
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-3> ./output
-----
Student-1:
Name: Aazan Noor
Roll NO: 706
Marks: 90 80 70 60 50
City Name: Karachi
State Name: Sindh
Pincode: 12345
-----
Student-2:
Name: Aazan Noor
Roll NO: 706
Marks: 90 80 70 60 50
City Name: Karachi
State Name: Sindh
Pincode: 12345
-----
Modify student-2 marks:
Enter marks :
20 17 12 94 18
-----
student-1 details after modifying:
Name: Aazan Noor
Roll NO: 706
Marks: 20 17 12 94 18
City Name: Karachi
State Name: Sindh
Pincode: 12345
PS C:\Users\Azan Noor\OneDrive\Desktop\Lab Task Opp\labtask-3> |
```