

## Definitions of Task-1:

```
#include <iostream>
```

```
#include <iostream>
```

```
#include <conio.h>
```

```
#include <cstdlib>
```

```
using namespace std;
```

```
int nationality, gender, degree, choice;
```

```
struct Address {
```

```
    string city, street;
```

```
};
```

```
struct Foreigner {
```

```
    int f_visitorNo, f_passportNo;
```

```
};
```

```
struct National {
```

```
    int n_cnic, n_familyNo;
```

```
};
```

```
union PersonType {
```

```
    Foreigner p-foreigner;
```

```
    National p-national;
```

```
};
```

```
enum GENDER {
```

```
    male = 0, female = 1
```

```
};
```

```
struct Person {
```

```
    string P-name;
```

```
    int P-age;
```

```
    Address P-address;
```

```
    PersonType P-type;
```

```
    GENDER P-gender;
```

```
    string P-addresses[3];
```

```
    int Person-Record[5];
```

```
};
```

```
void cout PersonRecord (Person Person)
```

```
{
```

```
    cout << "Your name is:" << Person.P-name << endl;
```

```
    cout << "Your age is:" << Person.P-age << endl;
```

```
    cout << "Your city name is:" << Person.P-address city << endl;
```

```
    cout << "Your street name is:" << Person.P-address street << endl;
```

```
    if (nationality == 1)
```

```
{
```

```
        cout << "Your visitor number is:" << Person.P-type.P-foreigner.f-visitorNo << endl;
```

```
        cout << "Your passport number is:" << Person.P-type.P-foreigner.f-passportNo << endl;
```

```
}
```

```
    else if (choice == 1) { // for edit function.
```

```
        cout << "You are foreigner" << Person.P-type.P-foreigner.f-visitorNo << endl;
```

```
        cout << "Your visitor number is:" << Person.P-type.P-foreigner.f-visitorNo << endl;
```

```
        cout << "Your passport number is:" << Person.P-type.P-foreigner.f-passportNo << endl;
```

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```
else if (choice == 2) { // for edit function
    cout << "You are National:" << Person.P-type . P-national . n-cnrc
    cout << "Your cnrc number is:" << Person.P-type . P-national . n-cnrc << endl;
    cout << "Your famill number is:" << Person.P-type . P-national . n-famillyNo << endl;
}
else {
    cout << "Your cnrc number is:" << Person.P-type . P-national . n-cnrc << endl;
    cout << "Your famill number is:" << Person.P-type . P-national . n-famillyNo << endl;
}

if (gender == 0) {
    cout << "You are male" << endl;
}
else {
    cout << "you are female" << endl;
    cout << "your degrees which you are select:" << endl;
    for (int i = 0; i < 3; i++)
    {
        cout << Person.P-degrees[i] << endl;
    }
}
```



```
void editPersonRecord (Person &person)
{
    int selection, variable;
    cout << "how many variables do you edit";
    cin >> variable;
    for (int i=0; i<variable; i++)
    {
        cout << "IF you want to edit your details then Press"
        cout << " ->1 for edit name" << endl;
        cout << " ->2 for edit age" << endl;
        cout << " ->3 for edit city" << endl;
        cout << " ->4 for edit street" << endl;
        cout << " ->5 for edit nationality" << endl;
        cout << " ->6 for edit degree" << endl;
        cin >> selection;
        if (selection == 1) {
            cout << "Edit your name" << endl;
            cout cin >> person.p-name;
        }
        else if (selection == 2) {
            cout << "Edit your age" << endl;
            cin >> person.p-age;
        }
    }
}
```

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```
else if (selection == 3) {  
    cout << "Edit your city name << endl;  
    cin >> Person.p-address.city;  
}
```

```
else if (selection == 4) {  
    cout << "Edit your street name << endl;  
    cin >> Person.p-address.street;  
}
```

```
else if (selection == 5) {  
    cout << "if you want change nationality  
    then enter 1 for foreigner . 2 for national << endl;  
    cin >> choice;  
    if (choice == 1) {  
        cout << "Edit your visitor and Passport No << endl;  
        cin >> Person.p-type.p-foreigner.f_visitorNo;  
        cin >> Person.p-type.p-foreigner.f-PassportNo;  
    }
```

```
    else if (choice == 2) {  
        cout << "Edit your cnic and family number << endl;  
        cin >> Person.p-type.p-National.n-cnrc;  
        cin >> Person.p-type.p-National.n-familyNo;  
    }
```

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```
else if (selection == 6) {  
    cout << "Edit your degree << endl ;  
    cout << "How many degree you want to change << endl ;  
    cin >> degrees ;  
    for (int i=0; i<degree; i++)  
    {  
        cin >> Person.p-degrees[i];  
    }  
}  
  
else {  
    cout << "Invalid entry" << endl ;  
}  
}  
}
```



Main file  $\Rightarrow$  2023-535-task-1.

```
#include "2023535_definitions-1.cpp"
```

```
using namespace std;
```

```
int main ( )
```

```
{
```

```
    Person p1
```

```
    cout
```

```
    getline
```

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

```
    cin >> cin, p1.p-name;
```

```
    cout << "Enter your age" << endl;
```

```
    cin >> p1.p-age;
```

```
    cout << "Enter your city" << endl;
```

```
    cin >> p1.p-address.city;
```

```
    cout << "Enter your street" << endl;
```

```
    cin >> p1.p-address.street;
```

```
    cout << "Enter 1 for foreigner 2 for National" << endl;
```

```
    cin >> nationality;
```

```
    if (nationality == 1) {
```

```
        cout << "Enter your visitor and passport No: " << endl;
```

```
        cin >> p1.p-type.p-foreigner.f-visitor No;
```

```
        cin >> p1.p-type.p-foreigner.f-passport No;
```

```
}
```

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```

else if (nationality == 2) {
    cout << "Enter your cnic and family No" << endl;
    cin >> P1.P.type.P.National.Bermer.n_cnic;
    cin >> P1.P.type.P.National.n_familyNo;
}

```

```

cout << "Enter 0 for male and 1 for female" << endl;
cin >> gender;

```

```

Gender choose;

```

```

{

```

```

    case 0:

```

```

        choose = male;

```

```

        break;

```

```

    case 1:

```

```

        choose = female;

```

```

}

```

```

cout << "In how many degrees you want to enroll" << endl;

```

```

cin >> degree;

```

```

cout << "Write your degree name" << endl;

```

```

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

```

```

    cin >> P1.P-degrees[i];

```

```

}

```

```

}

```



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cout Person Record (P1) ;

edit Person Record (P1) ;

cout Person Record (P1) ;

return 0 ;

}