

CS-114 - Fundamental of Programing

Lab Manual # 03

Course Instructor: Khawaja Fahad Iqbal

Lab Instructor: Muhammad Affan

Student Name: Muhammad Talha Kashif

CMS ID: 454135

```
#include<iostream>
```

HOME TASK 1

```
using namespace std;
```

```
int main() {
```

```
    char province;
```

```
    cout<<"Enter p for Punjab"<<endl;
```

```
    cout<<"Enter s for Sindh"<<endl;
```

```
    cout<<"Enter k for KPK"<<endl;
```

```
    cout<<"Enter b for Balochistan"<<endl;
```

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

```
    cout<<"Enter initial letter of province:";
```

```
    cin>>province;
```

```
    switch(province)
```

```
    {
```

```
        case 'p':
```

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

```
            cout<<"The population of Punjab is 127,474,000";
```

```
            break;
```

```
        case 's':
```

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

```
            cout<<"The population of Sindh is 54,858,515";
```

```
            break;
```

```
        case 'k':
```

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

```
            cout<<"The population of KPK is 39,372,462";
```

```
            break;
```

```
        case 'b':
```

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

```
            cout<<"The population of  
Balochistan is 20,094,659";
```

```
            break;
```

```
        default:
```

```
            cout<<"Invalid province";
```

```
    }
```

```
    return 0;
```

```
}
```

```
#include<iostream>

using namespace std;
```

```
int main() {
```

HOME TASK 2

```
    char letter;
```

```
    cout<<"Enter a letter:";
```

```
    cin>>letter;
```

```
    switch(letter)
```

```
    {
```

```
        case 'a':
```

```
            cout<<"It is a vowel";
```

```
            break;
```

```
        case 'e':
```

```
            cout<<"It is a vowel";
```

```
            break;
```

```
        case 'i':
```

```
            cout<<"It is a vowel";
```

```
            break;
```

```
        case 'o':
```

```
            cout<<"It is a vowel";
```

```
            break;
```

```
        case 'u':
```

```
            cout<<"It is a vowel";
```

```
            break;
```

```
        default:
```

```
            cout<<"It is a consonant";
```

```
    }
```

```
    return 0;
```

```
}
```



```
#include<iostream>
```

```
using namespace std;
```

HOME TASK 3

```
int main() {
```

```
    int num,result;
```

```
    cout<<"Enter a number:";
```

```
    cin>>num;
```

```
    if(num>0)
```

```
    {
```

```
        result=1;
```

```
    }
```

```
    else
```

```
    {
```

```
        if(num==0)
```

```
        {
```

```
            result=2;
```

```
        }
```

```
        else
```

```
        {
```

```
            result=3;
```

```
        }
```

```
    }
```

```
    switch(result)
```

```
    {
```

```
        case 1:
```

```
            cout<<"Number is positive";
```

```
            break;
```

```
    }
```

```
        case 2:
```

```
            cout<<"Number is equal to zero";
```

```
            break;
```

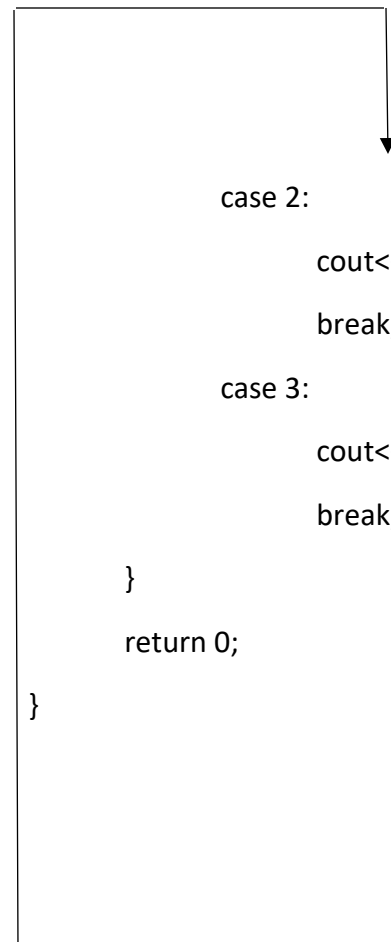
```
        case 3:
```

```
            cout<<"Number is negative";
```

```
            break;
```

```
    }
```

```
    return 0;
```



```
#include<iostream>
```

```
using namespace std;
```

```
int main() {
```

HOME TASK 4

```
    int age;
```

```
    cout<<"Enter age:";
```

```
    cin>>age;
```

```
    if(age>=18)
```

```
    {
```

```
        cout<<"The person is an adult"<<endl;
```

```
    }
```

```
    else
```

```
    {
```

```
        if(age<18&&age>12)
```

```
        {
```

```
            cout<<"The person is a teenager"<<endl;
```

```
        }
```

```
        else
```

```
        {
```

```
            cout<<"The person is a child"<<endl;
```

```
        }
```

```
    }
```

```
    return 0;
```

```
}
```

```
#include<iostream>
```

HOME TASK 5

```
using namespace std;
```

```
int main() {
```

```
    int num1,num2,num3;
```

```
    cout<<"Enter first number:";
```

```
    cin>>num1;
```

```
    cout<<"Enter second number:";
```

```
    cin>>num2;
```

```
    cout<<"Enter third number:";
```

```
    cin>>num3;
```

```
    if(num1>num2)
```

```
    {
```

```
        if(num1>num3)
```

```
        {
```

```
            cout<<num1<<" is the greatest number"<<endl;
```

```
        }
```

```
    else
```

```
    {
```

```
        cout<<num3<<" is the greatest number"<<endl;
```

```
    }
```

```
    }
```

```
    else
```

```
    {
```

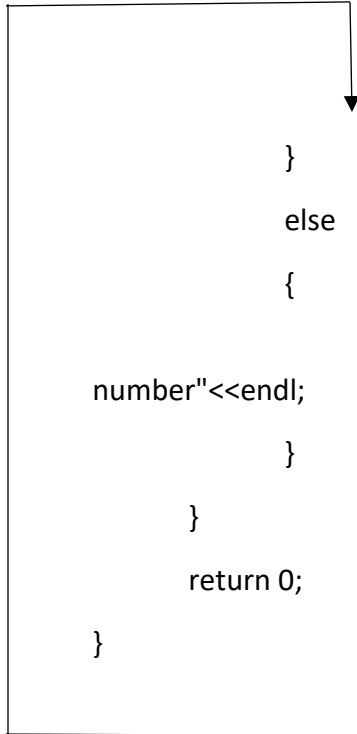
```
        if(num2>num3)
```

```
        {
```

```
            cout<<num2<<" is the greatest number"<<endl;
```

```
        }
```

```
    }
```



HOME TASK 6

```
#include<iostream>

using namespace std;
```

```
int main() {
    char letter;
    cout<<"Enter a letter:";
    cin>>letter;
    if(letter=='a')
    {
        cout<<"Letter is a vowel"<<endl;
    }
    else
    {
        if(letter=='e')
        {
            cout<<"Letter is a vowel"<<endl;
        }
        else
        {
            if(letter=='i')
            {
                cout<<"Letter is a vowel"<<endl;
            }
            else
            {
                if(letter=='o')
                {
                    cout<<"Letter is a vowel"<<endl;
                }
                else
                {
                    cout<<"Letter is a consonant"<<endl;
                }
            }
        }
    }
    return 0;
}
```