



Fundamentals of programming

ASSIGNMENT NUMBER #03

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ME- 15- B

```
#include <iostream>
```

```
using namespace std;
```

```
/* run this program using the console pauser or add your own getch, system("pause") or input loop */
```

TASK 1

```
int main() {
```

```
    int population = 0;
```

```
    char province;
```

```
    cout<<"p for punjab , s for sindh ,k for kpk , b for balochistan: ";
```

```
    cin>>province;
```

```
    switch (province)
```

```
{
```

```
    case 'p':
```

```
    case 'P':
```

```
        population = 10986468;
```

```
        cout <<"population of punjab is 10986468";
```

```
        break;
```

```
    case 's':
```

```
    case 'S':
```

```
        population =123456;
```

```
        break;
```

```
    case 'k':
```

```
    case 'K':
```

```
        population = 156789;
```

```
        break;
```

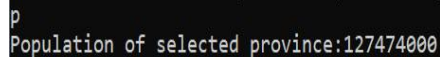
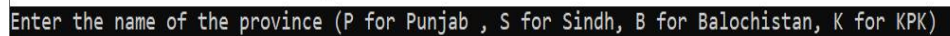
```
    case 'b':
```

```
    case 'B':
```

```
        population = 45678;
```

```
        break;
```

```
    default:
```



```

        cout <<"invalid province";
    }
    return 0
    cout<<"The population of the province is: "<<province<<endl;
}

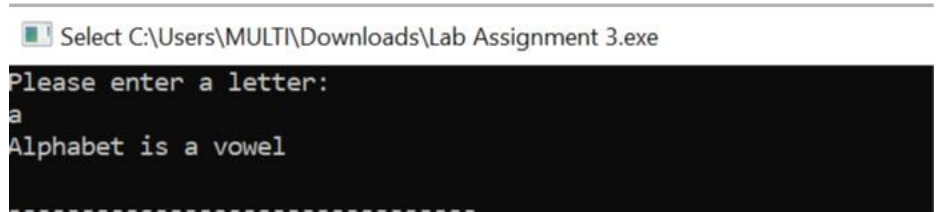
```

//TASK 2

```

char Alp;
cout<<"Please enter a letter: "<<endl;
cin>>Alp;
Alp= tolower(Alp);
switch (Alp) {
    case 'a':
    case 'e':
    case 'i':
    case 'o':
    case 'u':

```



```

        cout<<"Alphabet is a vowel"<<endl;

        break;

    default:
        cout<<"Alphabet is a consonant."<<endl;
        break;

```

```
}
```

```
//TASK 3
```

```
int cal;
```

```
int m;
```

```
cout<<"Enter a number: "<<endl; cin>>cal;
```

```
if (cal <0) {
```

```
    m = -1;
```

```
} else if ( cal> 0) {
```

```
    m = 1;
```

```
} else if (cal = 0) {
```

```
    m = 0;
```

```
}
```

```
switch (m)
```

```
{
```

```
    case -1:
```

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

```
        break;
```

```
    case 1:
```

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

```
        break;
```

```
    case 0:
```

```
        cout<<"Number is 0."<<endl;
```

```
        break;
```

```
}
```

Select C:\Users\MULTI\Downloads\Lab Assignment 3.exe

Enter a number:

10

Number is positive.

//TASK 4

```
int Age;

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

cin>>Age;

if (Age>=18) {

cout<<"Person is an adult."<<endl;

} else {

if (Age<18 && Age>=13) {

        cout<<"Person is a teen."<<endl;

} else {

        cout<<"Person is a child."<<endl;

}

}

}
```

//TASK 5

```
int n1,n2,n3;

cout<<"Please enter three numbers"<<endl;

cin>>n1>>n2>>n3;

if (n1>=n2) {

        if (n1>=n3) {

                cout<<n1<<" is the greatest number."<<endl;

        } else {

                cout<<n3<<" is the greatest number."<<endl;

        }

} else {

        if (n2>=n3) {
```

Select C:\Users\MULTI\Downloads\Lab Assignment 3.exe

```
Enter your age:
14
Person is a teen.
```

C:\Users\MULTI\Downloads\Lab Assignment 3.exe

```
Enter three numbers
10
23
15
23 is the greatest number.
```

```

        cout<<n2<<" is the greatest number."<<endl;
    } else {
        cout<<n3<<" is the greatest number."<<endl;
    }
}

}

}

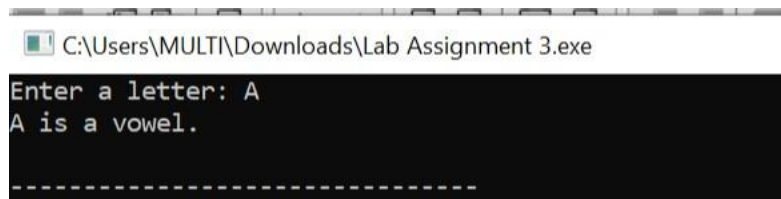
```

//TASK 6

```
char Alphabet;
```

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

```
cin >> Alphabet;
```



```

if ((Alphabet >= 'a' && Alphabet <= 'z') || (Alphabet >= 'A' && Alphabet <= 'Z')) {
    if (Alphabet == 'a' || Alphabet == 'e' || Alphabet == 'i' || Alphabet == 'o' || Alphabet == 'u' ||
        Alphabet == 'A' || Alphabet == 'E' || Alphabet == 'I' || Alphabet == 'O' || Alphabet == 'U') {
        cout << Alphabet << " is a vowel." << endl;
    } else {
        cout << Alphabet << " is a consonant." << endl;
    }
} else {
    cout << "Invalid input. Please enter a valid letter." << endl;
}

return 0;

```

}