



NAME: Rameen Fatima

STUDENT ID:453962

CLASS:ME – 15C

HOMETASK:

Home task 1:

```
//hometask1
#include <iostream>

using namespace std;

int main()
{
    char prov;
    cout << "Enter a Pakistani Province: ";
    cin >> prov;
    switch(prov){
        // since char will only store the initial letter cases will be based on that
        case 'p':
            cout << "The total population of Punjab is:127,474,000";
            break;
        case 's':
            cout << "The total population of Sindh is:47.89 million";
            break;
        case 'b':
            cout << "The total population of Balochistan is:21.7 million";
            break;
        case 'k':
            cout << "The total population of Khyber Pakhtunkhwa is:40.85 million";
            break;
        default:
            cout << "Invalid Input";
    }
    return 0;}
```

```
Enter a Pakistani Province: balochistan
The total population of Balochistan is:21.7 million
```

## Homework 2:

```
using namespace std;
//homework2
int main()
{
    char letter;
    cout << "Enter a letter:";
    cin >> letter;
    switch (letter){
        case 'a'://not adding breaks since all vowels will have same output
        case 'e':
        case 'i':
        case 'o':
        case 'u':
            cout << "The letter is a vowel";
            break;
        case 'b':
        case 'c':case 'd':case 'f':case 'g':case 'h':case 'j':case 'k':case 'l':
        case 'm':case 'n':case 'p':case 'q':case 'r':case 's':case 't':case 'v':case 'w':
        case 'x':case 'y':case 'z':
            cout << "The letter is a consonant";
            break;
        default:
            cout << "Invalid input";
            break;
    }
    return 0;
}
```

Activate

```
Enter a letter:n
The letter is a consonant
```

```
Enter a letter:i
The letter is a vowel
```

## Homework 3:

```
#include <iostream>

using namespace std;
// home task 3
int main()
{
    int num;
    char x;
    cout << "Enter a number:";
    cin >> num;
    if (num>0){//since switch doesnt accept boolean if else is used first
        x = 'p';
    }
    else if(num<0){
        x = 'n';
    }
    else x = 'z';
    switch(x){
        case 'p':
            cout << "The number is positive";
            break;
        case 'n':
            cout << "The number is negative";
            break;
    }
}
```

```

        case 'z':
        cout << "The number is zero";
        break;
    }

    return 0;
}

```

```

Enter a number:-4
The number is negative

```

Hometask 4:

```

#include <iostream>

using namespace std;
//hometask4

int main()
{
    int num;
    char x;
    cout << "Enter your age:";
    cin >> num;
    if (num<20){
        if(num<13){
            cout << "You are a child";
        }
        else cout << "You are a teenager";
    }
    else cout << "You are an adult";

    return 0;
}

```

```

Enter your age:15
You are a teenager

```

# Hometask 5:

```
#include <iostream>

using namespace std;
//hometask5
int main()
{
    int n1,n2,n3,g;// g is the variable in which the greatest value is stored
    cout << "Enter the first number:";
    cin >> n1;
    cout << "Enter the second number:";
    cin >> n2;
    cout << "Enter the third number:";
    cin >> n3;
    if (n1>n2){
        if (n1>n3){
            g = n1;
        }
        else {
            g = n3;
        }
    }
    else if (n2>n3){
        g = n2;
    }
    else {
        g = n3;
    }
    cout << "The greatest number is:" << g;
    return 0;
}
```

```
Enter the first number:19
Enter the second number:34
Enter the third number:65
The greatest number is:65
```

```
#include <iostream>

using namespace std;
//hometask6
int main()
{
    char in;
    cout << "Enter a letter:";
    cin >> in; //using OR boolean logic
    if (in == 'a' || in == 'e' || in == 'i' || in == 'o' || in == 'u' ){
        cout << "This letter is a vowel";
    }
    else {
        cout << "This letter is a consonant";
    }
    return 0;
}
```

```
Enter a letter:g
This letter is a consonant
```