

Fundamental of Programming

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Task no.1

```
#include <iostream>
using namespace std;
int main(){
    char province;
    cout<<"enter the province(P for punjab ,S for sindh,K for KPK,B for Balochistan)";
    cin>> province;

    switch (province){
        case 'P':
        case 'p':
            cout<<"population of punjab : 120000000";
            break;
        case 'S' :
        case 's' :
            cout<<"population of sindh : 54858515";
            break;
        case 'K' :
        case 'k' :
            cout<<" population of KPK : 40850000";
            break;
        case 'B' :
        case 'b' :
            cout<<"population of Balochistan : 21700000";
            break;
        default :
            cout<<"invalid code";
    }
    return 0;
}
```

Output

[?2004I

enter the province(P for punjab ,S for sindh,K for KPK,B for Balochistan)k
population of KPK : 40850000[?2004h

Task no.2

```
#include <iostream>
using namespace std;
```

```

int main(){
    char Alphabet;
    cout<<"enter an alphabet:";
    cin>> Alphabet ;
    switch(Alphabet){
        case 'a':
        case 'e':
        case 'i' :
        case 'o':
        case 'u':
            cout<<"Alphabet is vowel";
            break;
        default:
            cout<<"Alphabet is consonant";
            break;
    }
    return 0;
}

```

Output

```

[?2004I
enter an alphabet:g
Alphabet is consonant[?2004h

```

Task no.3

```

#include <iostream>
using namespace std;
int main(){
    int number;
    cout<<"Enter a number:";
    cin>>number;
    switch(number=0?0 : (number<0?-1:0 )){
        case 0:
            cout<<"number is zero.";
            break;
        case -1:
            cout<<"number is negative.";
            break;
        default:
            cout<<" number is positive. ";
            break;
    }
    return 0;
}

```

Output

```

[?2004I
Enter a number:-56
number is negative.[?2004h

```

//task#04

```
#include <iostream>
```

```
Using namespace std;
```

```
Int main() {
```

```
Int age;
```

```
Cout << "Enter your age: ";
```

```
Cin >> age;
```

```
If (age >= 18) {
```

```
Cout << "You are an adult." << endl;
```

```
} else {
```

```
If (age >= 13) {
```

```
Cout << "You are a teenager." << std::endl;
```

```
} else {
```

```
Scout << "You are a child." << endl;
```

```
}
```

```
}
```

```
Return 0;
```

```
}
```

Output

```
[?2004I
```

```
Enter your age: qe 18
```

```
You are an adult.
```

```
[?2004h
```

//task#05

```

#include <iostream>

Using namespace std;

Int main() {

Int num1, num2, num3;

Cout << "Enter three numbers: ";

Cin >> num1 >> num2 >> num3;

Int greatest = num1;

If (num2 > greatest) {

Greatest = num2;

}

If (num3 > greatest) {

Greatest = num3;

}

Cout << "The greatest number is: " << greatest << endl;

Return 0;
}

```

Output

Enter three numbers: 8

6

15

The greatest number is: 15

//task #06

```

#include <iostream>

Using namespace std;

```

```

Int main() {

Char ch;

Cout << "Enter an alphabet: ";

Cin >> ch;

If (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u' ||

Ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U') {

Cout << ch << " is a vowel." << endl;

}

Else if ((ch >= 'a' && ch <= 'z') || (ch >= 'A' && ch <= 'Z')) {

Cout << ch << " is a consonant." << endl;

}

Else {

Cout << "Invalid input. Please enter an alphabet." << endl;

}

Return 0;

}

```

Output

[?2004l

Enter an alphabet: z

Z is a consonant.

[?2004h