

FUNDAMENTAL OF PROGRAMMING  
HOME TASK #3  
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## TASK 1

```
#include<iostream>
using namespace std;
int main () {
    int Punjab=27743338,sindh=54858515,kpk=39372462,balochistan=20094659;
    char letter;

    cout<<"Please write the First letter of the province to know the population"<<endl;
    cin>>letter;

    switch(letter){
        case 'p' :
            cout<<"the population is of punjab is "<< Punjab<<endl;
            break;
        case 's' :
            cout<<"the population is of sindh is "<< sindh<<endl;
            break;
            case 'b' :
                cout<<"the population is of balochistan is "<< balochistan<<endl;
                break;
        case 'k' :
            cout<<"the population is of kpk is "<< kpk<<endl;
            break;
        default :
            cout<<"Please enter a valid letter "<<endl;
            break;
    }
    return 0;
}
```

```
C:\Users\Fcc\Desktop\Untitled2.exe
Please write the First letter of the province to know the population
p
the population is of punjab is 27743338
-----
Process exited after 3.721 seconds with return value 0
```

```
C:\Users\Fcc\Desktop\Untitled2.exe
Please write the First letter of the province to know the population
k
the population is of kpk is 39372462
-----
Process exited after 1.72 seconds with return value 0
Press any key to continue . . .
```

## TASK2

```
1  #include<iostream>
2  using namespace std;
3  int main () {
4      char alphabet;
5      cout<<"Please enter an alphabet"<<endl;
6      cin>>alphabet;
7
8      switch(alphabet){ // creating a switch case for different vowels
9          case 'a':
10         case 'e':
11         case 'i':
12         case 'o':
13         case 'u':
14             cout<<"The alphabet is an vowel"<<endl;
15             break;
16         default: // default scenario will print everyother letter except the one above as consonant
17             cout<<"the alphabet is an consonant"<<endl;
18             break;
19     }
20 }
21
22
23
```

 C:\Users\Fcc\Desktop\Untitled2.exe

Please enter an alphabet

i

The alphabet is an vowel

-----  
Process exited after 3.567 seconds with return value 0

Press any key to continue . . .

C:\Users\Fcc\Desktop\Untitled2.exe

```
Please enter an alphabet
c
the alphabet is an consonant

-----
Process exited after 0.9183 seconds with return value 0
Press any key to continue . . .
```

### TASK 3

Untitled2.cpp

```
1  #include<iostream>
2  using namespace std;
3  int main () {
4      int a;
5      cout<<"Enter an integer"<<endl;
6      cin>>a;
7
8      switch(a){
9          case 0:
10             cout<<"the given integer is zero"<<endl;
11             break;
12
13         default:
14             if (a<0){
15                 cout<<"the number is negative"<<endl;
16             }
17             else{
18                 cout<<"the number is positive"<<endl;
19             }
20
21         }
22     return 0;
23 }
```

C:\Users\Fcc\Desktop\Project1.exe

```
Enter an integer
1
the number is positive

-----
Process exited after 1.899 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\Fcc\Desktop\Project1.exe
Enter an integer
0
the given integer is zero

-----
Process exited after 0.9799 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\Fcc\Desktop\Project1.exe
Enter an integer
-1
the number is negative

-----
Process exited after 4.212 seconds with return value 0
Press any key to continue . . .
```

#### TASK4

```
1  #include<iostream>
2  using namespace std;
3  int main () {
4      int age;
5      cout<<"enter your age "<<endl;
6      cin>>age;
7      if(age<20) {
8          if (age>13){
9              cout<<"you are an teenager"<<endl;
10         }
11         else{
12             cout<<"you are a child"<<endl;
13         }
14     }
15 }
16 else {
17     cout<<"You are an adult"<<endl;
18 }
19
20
21 return 0;
22 }
```

```
C:\Users\Fcc\Desktop\Project1.exe
enter your age
20
You are an adult

-----
Process exited after 2.356 seconds with return value 0
Press any key to continue . . .
```

```
C:\Users\Fcc\Desktop\Project1.exe
enter your age
15
you are an teenager


-----
Process exited after 1.413 seconds with return value 0
Press any key to continue . . .
```

Task 5

```

#include<iostream>
using namespace std;
int main () {
    int a,b,c;
    cout<<"Please enter any three numbers"<<endl;
    cin>>a>>b>>c;
    if (a>b){
        if(a>c){
            cout<< a << " is the greatest of the three numbers"<<endl;
        }
        else {
            cout<< c << " is the greatest of the three numbers"<<endl;
        }
    }
    else {
        if (b>c){
            cout<<b<<" is the greatest of the three numbers"<<endl;}
        else{
            cout<< c << " is the greatest of the three numbers"<<endl;
        }
    }
}

```

 C:\Users\Fcc\Desktop\Project1.exe

```

Please enter any three numbers
22
3
18
22 is the greatest of the three numbers

-----
Process exited after 4.371 seconds with return value 0
Press any key to continue . . .

```

```

1  #include<iostream>
2  using namespace std;
3  int main () {
4  char letter;
5  cout<<"please write an alphabet"<<endl;
6  cin>>letter;
7  if (letter>='a' && letter<='z') {
8      if (letter=='a' || letter=='e' || letter=='i' || letter=='o' || letter=='u') {
9          cout<<"the letter is a vowel"<<endl;
10         else {
11             cout<<"the letter is a consonant"<<endl;
12         }
13     }
14 }
15
16

```

C:\Users\Fcc\Desktop\Project1.exe

```

please write an alphabet
e
the letter is a vowel
-----
Process exited after 3.033 seconds with return value 0
Press any key to continue . . .

```

C:\Users\Fcc\Desktop\Project1.exe

```

please write an alphabet
s
the letter is a consonant
-----
Process exited after 2.135 seconds with return value 0
Press any key to continue . . .

```