# LAB MANUAL -3 HOME TASK

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## NATIONAL UNIVERSITY OF SCIENCE AND TECHNOLOGY

# HOME TASK -1

```cpp
#include<iostream>
using namespace std;
int main(){
    char choice;
int total_population;
cout<<"select the province name "<<endl;
    cout<<"1.punjab"<<endl;
    cout<<"2.sindh"<<endl;
    cout<<"3.blochistan"<<endl;
    cout<<"4.KPK"<<endl;

cin>>choice;
    switch(choice){
case '1':
    total_population =  127474000;
    cout<<"Total population of punjab"<<endl;
    cout<<total_population<<endl;
break;
case '2':
    total_population=54858515;
    cout<<"Total population of sindh"<<endl;
    cout<<total_population<<endl;
break;
case '3':
    total_population=6670030;
    cout<<"Total population of balochistan"<<endl;
    cout<<total_population<<endl;
break;
case '4':
    total_population=141343;
    cout<<"Total population of KPK"<<endl;
    cout<<total_population<<endl;
break;
default:
    cout<<"invalid choise"<<endl;
return 0;



    }
```

```
select the province name
1.punjab
2.sindh
3.blochistan
4.KPK
3
Total population of balochistan
6670030

-------------------------------
Process exited after 2.713 seconds with return value 0
Press any key to continue . . .
```

# HOME TASK -2

```cpp
#include<iostream>
using namespace std;
int main(){
    char character;
cout<<"Enter the character"<<endl;
cin>>character;
switch(character){
    case 'a':
    case'e':
    case'i':
    case'o':
    case'u':
    case'A':
    case'E':
    case'I':
    case'O':
    case'U':
    cout<<"The character is vowel"<<endl;
    break;
    default:
        cout<<"The character is consonent"<<endl;
        return 0;
}
}
```

```
Enter the character
R
The character is consonent

--------------------------------
Process exited after 4.732 seconds with return value 0
Press any key to continue . . .
```

# HOME TASK-3

```cpp
#include<iostream>
using namespace std;
int main(){
    int num;
cout<<"Enter the number"<<endl;
cin>>num;
switch(num>0){
    case 1:
cout<<"The number is positive"<<endl;
break;
  case 0:
switch(num<0)
    case 1:
cout<<"The number is negative"<<endl;
break;

default:
cout<<"The number is 0"<<endl;
}
return 0;}
```

```
Enter the number
6
The number is positive

--------------------------------
Process exited after 2.06 seconds with return value 0
Press any key to continue . . . _
```

# HOME TASK -4

```cpp
#include<iostream>
using namespace std;
int main ()
{
int age;
cout<<"Enter the age"<<endl;
cin>>age;

    if(age>=12){
if(age<=19){
            cout<<"you are a teenager"<<endl;}
else{cout<<"you are adult"<<endl;}
}

    else{cout<<"you are a child"<<endl;}


    return 0;



}
```

```
Enter the age
16
you are a teenager

--------------------------------
Process exited after 1.992 seconds with return value 0
Press any key to continue . . . _
```

# HOME TASK -5

```cpp
#include <iostream>
using namespace std;
int main(){
    int num1;
    int num2;
    int num3;
cout<<"Enter the 3 numbers"<<endl;
    cin>>num1;
    cin>>num2;
    cin>>num3;
if(num1>=num2)
{
if(num1>=num3){
    cout<<"The greatest number is"<<endl;
cout<<num1;
}
else{
    cout<<"The greatest number is"<<endl;
cout<<num3;}
}else{if(num2>=num3){
    cout<<"The greatest numb is "<<endl;
cout<<num2;
}
else{cout<<"The greatest number is"<<endl;
    cout<<num3;
}
}
return 0;
}
```

```
Enter the 3 numbers
6
8
9
The greatest number is
9
--------------------------------
Process exited after 5.778 seconds with return value 0
Press any key to continue . . . ▪
```

# HOME TASK -6

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

int main()
{
    char ch = 0;
    cout << "Please enter the alphabet: ";
    cin >> ch;

    if (ch == 'a' || ch == 'e' || ch == 'i' || ch == 'o' || ch == 'u')
    {
        cout << "The character is a vowel" << endl;
    }
    else
    {
        if (ch == 'A' || ch == 'E' || ch == 'I' || ch == 'O' || ch == 'U')
        {
            cout << "The character is a vowel" << endl;
        }
        else
        {
            cout << "The character is a consonant" << endl;
        }
    }

    return 0;
}
```

```
Please enter the alphabet: A
The character is a vowel


--------------------------------
Process exited after 4.515 seconds with return value 0
Press any key to continue . . .
```