

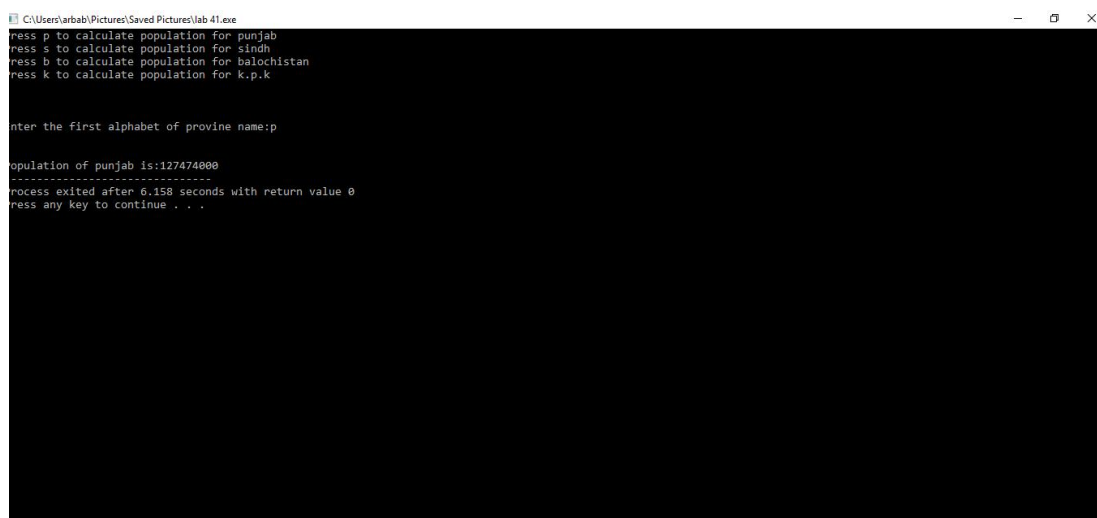
C++ ASSIGNMENT

LAB MANUAL 3

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TASK 1

```
#include<iostream>
using namespace std;
int main()
{
    char t;
    cout<<"Press p to calculate population for punjab"<<endl;
    cout<<"Press s to calculate population for sindh"<<endl;
    cout<<"Press b to calculate population for balochistan"<<endl;
    cout<<"Press k to calculate population for k.p.k"<<endl;
    cout<<" "<<endl;cout<<" "<<endl;cout<<" "<<endl;
    cout<<"Enter the first alphabet of provine name:";
    cin>>t;
    cout<<" "<<endl;cout<<" "<<endl;
    switch(t)
    {
        case 'p' :
            cout<<"Population of punjab is:127474000";
            break;
        case 's':
            cout<<"Population of sindh is:54858515";
            break;
        case 'k' :
            cout<<"Population of k.p.k is :39372462";
            break;
        case 'b' :
            cout<<"Population of balochistan is:20094659";
            break;
        default :
            cout<<"Enter a right alphabet (s,p,b,k)";
    }
    return 0;
}
```



```
C:\Users\arbab\Pictures\Saved Pictures\lab 41.exe
Press p to calculate population for punjab
Press s to calculate population for sindh
Press b to calculate population for balochistan
Press k to calculate population for k.p.k

Enter the first alphabet of provine name:p

Population of punjab is:127474000
.....
Process exited after 6.158 seconds with return value 0
Press any key to continue . . .
```

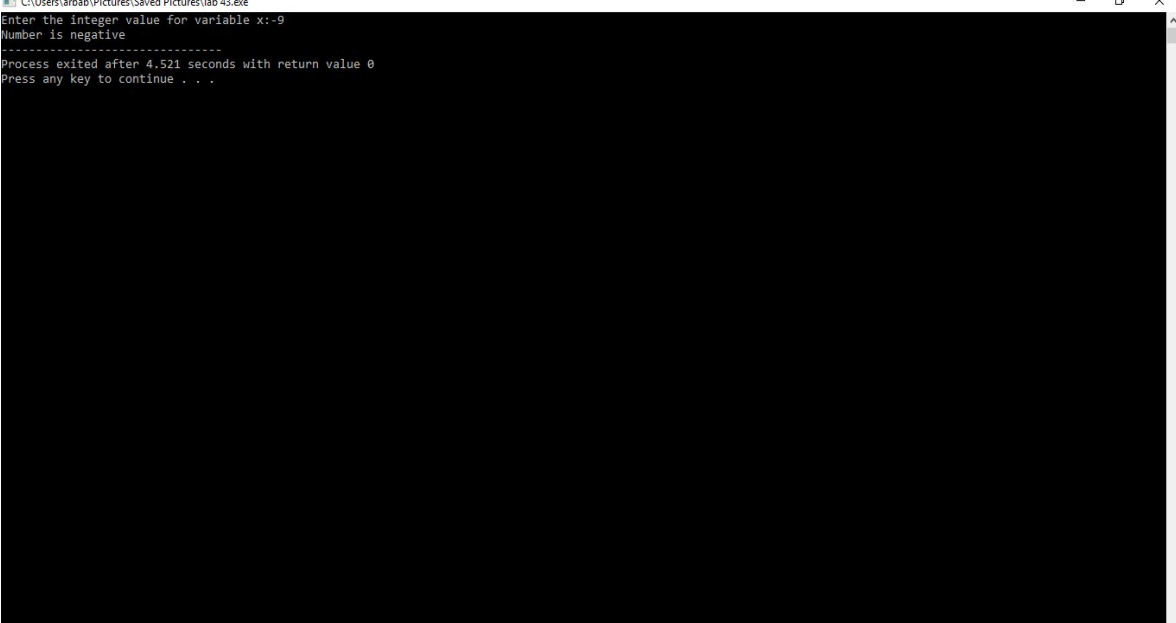
TASK 2

```
#include<iostream>
using namespace std;
int main()
{
    char x;
    cout<<"Enter a character:";
    cin>>x;
    switch(x)
    {
        case 'a': case 'e': case 'i': case 'o':case 'u':
            cout<<"Given character is a vowel";
            break;
        case 'b': case 'f':case 'j': case 'm':case 'q': case 't':case 'x':
        case 'c': case 'g':case 'k': case 'n':case 'r': case 'v':case 'y':
        case 'd': case 'h':case 'l': case 'p':case 's': case 'w':case 'z':
            cout<<"Given character is not vowel";
            break;
        default:
            cout<<"Enter a right character";
    }
    return 0;
}
```



TASK 3

```
#include<iostream>
using namespace std;
int main()
{
    //initializing variable x and assigning a value
    int x;
    cout<<"Enter the integer value for variable x:";
    cin>>x;
    if(x>=0)
    {
        switch(x)
        {
            case 0 :
                cout<<"Number is zero";
                break;
            default:
                cout<<"Number is positive";
                break;
        }
    }
    else
    {
        switch(x)
        {
            default:
                cout<<"Number is negative";
        }
    }
    return 0;
}
```



```
C:\Users\arbab\Pictures\Saved Pictures\lab 43.exe
Enter the integer value for variable x:-9
Number is negative
-----
Process exited after 4.521 seconds with return value 0
Press any key to continue . . .
```

TASK 4

```
#include<iostream>
using namespace std;
int main()
{
    int y;
    cout<<"Enter the age of person:";
    cin>>y;
    if(y<18)
    {
        if(y<12)
            cout<<"The person is a child";
        else
            cout<<"The person is a teenager";
    }
    else
    {
        cout<<"The person is a adult";
    }
}
```



```
C:\Users\arbab\Picture\Saved Pictures\lab 44.exe
Enter the age of person:4
The person is a child
-----
Process exited after 3.029 seconds with return value 0
Press any key to continue . . .
```

TASK 5

```
#include<iostream>
using namespace std;
int main()
{
    int a,b,c;
    cout<<"Value of variable a is:";
    cin>>a;
    cout<<"Value of variable b is:";
    cin>>b;
    cout<<"Value of variable c is:";
    cin>>c;
    if(a>b)
    {
        if(a>c)
        {cout<<"Greatest value is a:"<<a;

        }
        else if(c>a)
        {
            cout<<"Greatest value is c:"<<c;
        }
    }
    else if (b>a)
    {
        if(b>c)
        {cout<<"Greatest value is b:"<<b;

        }
        else
        {
            cout<<"Greatest value is c:"<<c;
        }
    }
    else if(c>a)
    {
        if(c>b)
        {cout<<"Greatest value is c:"<<c;

        }
        else
        {
            cout<<"Greatest value is b:"<<b;
        }
    }
    return 0;
}
```

```
C:\Users\arbab\Picture\Saved Pictures\lab 45.exe
value of variable a is:4
value of variable b is:5
value of variable c is:6
retest value is c:6
.....
process exited after 5.202 seconds with return value 0
Press any key to continue . . .
```

TASK 6

```
#include<iostream>
using namespace std;
int main()
{
    char x;
    cout<<"Enter a character from a to z:";
    cin>>x;
    if (x>='a' && x<='z')
    {
        if(x=='a' || x=='e' || x=='i' || x=='o' || x=='u')
        {
            cout<<"Given character is a vowel";
        }
        else
```

```
C:\Users\arbab\Picture\Saved Pictures\lab 46.exe
Enter a character from a to z:a
Given character is a vowel
.....
Process exited after 2.218 seconds with return value 0
Press any key to continue . . .
```

```
{
    cout<<"Given character is a consonant";
}
}
}
```