Fundamentals of Programming

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LAB Manual 3

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HOME TASK

```cpp
//Q:1 Write a C++ program to print the total number of populations in Punjab, Sindh, KPK, and Balochistan using a switch case.


#include <iostream>
using namespace std;

int main() {
    int Punjab, Sindh, Balochistan, KPK;

    Punjab = 127474000;
    Sindh = 54858515;
    Balochistan = 20037659;
    KPK = 39372462;

    cout << "Enter a number to get information about people:" << endl;
    int n;
    cout << "Enter 1 for Punjab" << endl;
    cout << "Enter 2 for Sindh" << endl;
    cout << "Enter 3 for Balochistan" << endl; // Fixed a single quote that should be a semicolon
    cout << "Enter 4 for KPK" << endl;
    cin >> n;

    switch (n) {
        case 1:
            cout << "Population of Punjab: " << Punjab << endl;
            break;
        case 2:
            cout << "Population of Sindh: " << Sindh << endl;
            break;
        case 3:
            cout << "Population of Balochistan: " << Balochistan << endl;
            break;
        case 4:
            cout << "Population of KPK: " << KPK << endl;
            break;
        default:
            cout << "Invalid input" << endl;
            break;
    }

    return 0;
}
```

```
"C:\Users\Dell\Desktop\hi\As:   ×   +   ∨

Enter a number to get information about people:
Enter 1 for Punjab
Enter 2 for Sindh
Enter 3 for Balochistan
Enter 4 for KPK
3
Population of Balochistan: 20037659

Process returned 0 (0x0)   execution time : 2.975 s
Press any key to continue.
```
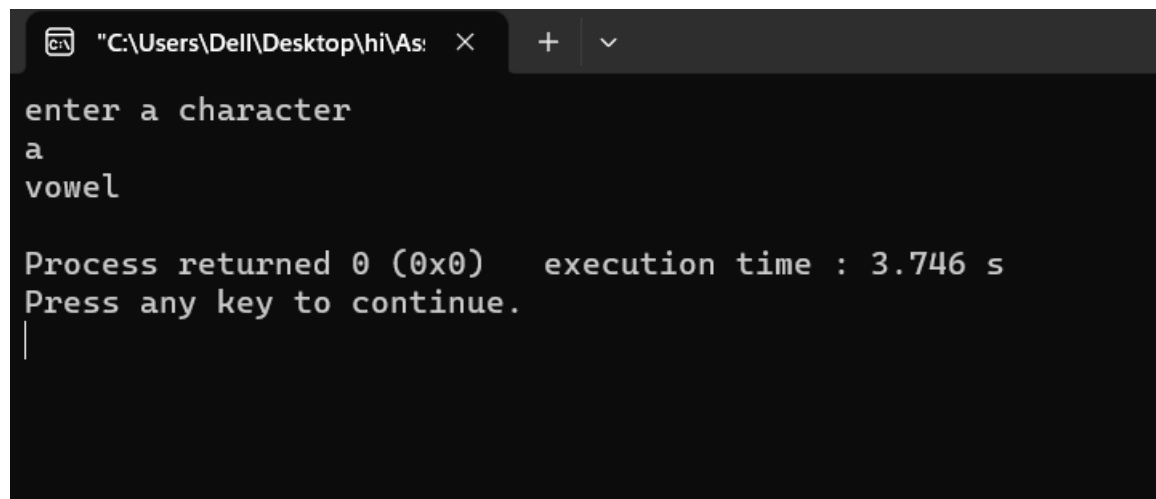
```cpp
// Q 2) Write a C++ program to check whether an alphabet is a vowel or consonant using a switch case.

#include <iostream>
using namespace std;
int main(){
char a;
 cout<<"enter a character"<<endl;
 cin>>a;
 switch(a)
 {
     case 'a': cout<<"vowel"<<endl;
     break;
     case 'e': cout<<"vowel"<<endl;
     break;
     case 'i': cout<<"vowel"<<endl;
     break;
     case 'o': cout<<"vowel"<<endl;
     break;
     case 'u': cout<<"vowel"<<endl;
     break;

     default:
         cout<<"not vowel"<<endl;


 }
```

"C:\Users\Dell\Desktop\hi\As   ✕   +   ∨

```
enter a character
a
vowel

Process returned 0 (0x0)    execution time : 3.746 s
Press any key to continue.
```