

Intro to C++

Session 5- Two Sample C++ Programs

By Coding-Bootcamps.com

Switch-Case

Program # 1: Vowel Character

```
//Program to find out the given character is vowel or not
#include <iostream>
using namespace std;

int main() {
    char characterEntered;
    bool isVowel;
    cout << "Please enter a character: " << endl;
    cin >> characterEntered;
    // Switch-case statement
    switch (characterEntered) {
        case 'a':
            isVowel = true; break;
        case 'i':
            isVowel = true; break;
        case 'e':
            isVowel = true; break;
        case 'o':
            isVowel = true; break;
        case 'u':
            isVowel = true; break;
        default:
            isVowel = false;
    }
    if (isVowel) cout << "The character is a vowel. " << endl;
    else cout << "The character is not a vowel. " << endl;

    return 0;
}
```

#####

Program # 2: Arithmetic Operations

```
//Program to solve arithmetic operations
#include <iostream>
using namespace std;

int main() {
    int x, y, result;
    char operatorEntered;
```

```

bool validOperatorChosen = true;
cout << "Please enter the first number: " << endl;
cin >> x;
cout << "Please enter the second number: " << endl;
cin >> y;
cout << "Please enter an arithmetic operator (i.e. \"+\" is for adding): " <<
endl;
cin >> operatorEntered;

switch (operatorEntered) {
    case '+':
        result = x + y; break;
    case '-':
        result = x - y; break;
    case '*':
        result = x * y; break;
    case '/':
        result = x / y; break;
    default:
        cout << "Invalid operator entered." << endl;
        validOperatorChosen = false;
}
if(validOperatorChosen)    cout << "Result is: " << result << endl;
return 0;
}

```