Clint Kline

Week 3 Hands On

10-28-2021

**Chapter 6 Exercise 2:**

Determine the value of each of the following expressions.

*int* main()

{

    input = static\_cast<*char*>(toupper('#'));

    cout << input << endl; *// output: '#'*

    input = static\_cast<*char*>(toupper('k'));

    cout << input << endl; *// output: K*

    input = static\_cast<*char*>(toupper('3'));

    cout << input << endl; *// output: '3'*

    input = static\_cast<*char*>(toupper('-'));

    cout << input << endl; *// output: '-'*

    input = static\_cast<*char*>(tolower('T'));

    cout << input << endl; *// output: 't'*

    input = static\_cast<*char*>(tolower(':'));

    cout << input << endl; *// output: ':'*

    input = static\_cast<*char*>(tolower('u'));

    cout << input << endl; *// output: 'u'*

*// input = static\_cast<char>(tolower(‘{‘));*

*//     cout << input << endl; // output: "expected '}' before ')' token" error.*

    return 0;

};

**Chapter 7 Exercise 6:**

Suppose that the enum flowerType is as defined in Exercise 2 (with the values ROSE, DAISY, CARNATION, FREESIA, GARDENIA, ALLIUM, TULIP, IRIS, SUNFLOWER, LILAC, ORCHID). Write a C++ function that can be used to output the value of a variable of type flowerType. (7)

*/\**

*Filename:Wk3Ch7Ex6.cpp*

*Creation Date: 10-29-2021*

*Author: Clint Kline*

*Purpose:*

*- description.*

*\*/*

#include <iostream>

#include <string>

#include <cctype>

using *namespace* std;

*enum* flowerType

{

    ALLIUM,

    CARNATION,

    DAISY,

    FREESIA,

    GARDENIA,

    IRIS,

    LILAC,

    ORCHID,

    ROSE,

    SUNFLOWER,

    TULIP

};

*void* extractValue(*char* *ch*)

{

    flowerType flower;

    switch (*ch*)

    {

    case 'a':

        flower = ALLIUM;

        cout << flower;

        break;

    case 'c':

        flower = CARNATION;

        cout << flower;

        break;

    case 'd':

        flower = DAISY;

        cout << flower;

        break;

    case 'f':

        flower = FREESIA;

        cout << flower;

        break;

    case 'g':

        flower = GARDENIA;

        cout << flower;

        break;

    case 'i':

        flower = IRIS;

        cout << flower;

        break;

    case 'l':

        flower = LILAC;

        cout << flower;

        break;

    case 'o':

        flower = ORCHID;

        cout << flower;

        break;

    case 'r':

        flower = ROSE;

        cout << flower;

        break;

    case 's':

        flower = SUNFLOWER;

        cout << flower;

        break;

    case 't':

        flower = TULIP;

        cout << flower;

        break;

    default:

        cout << "Sorry, we currently have no flowers beginning with that letter in stock." << endl;

    }

}

*int* main()

{

*char* ch;

    cout << "enter the first letter of your favorite flower: " << endl;

    cout << ">> ";

    cin >> ch;

    extractValue(ch);

    cout << endl;

    cout << endl;

    main();

    return 0;

};

