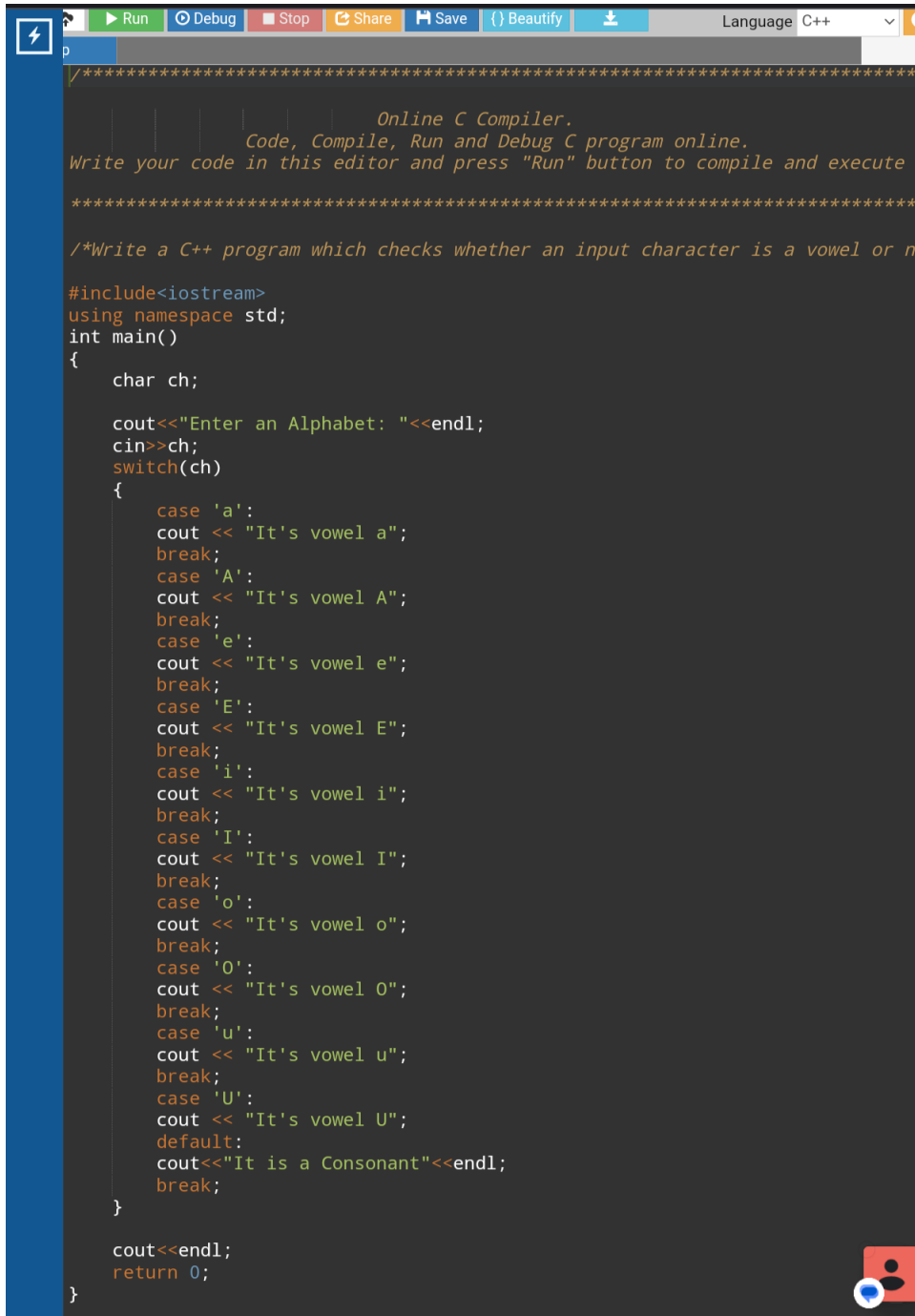


# LAB EXAM C++ Programming

1. Write a C++ program which checks whether an input character is a vowel or not.

The image shows a web-based code editor interface for an online C compiler. At the top, there is a toolbar with buttons for 'Run', 'Debug', 'Stop', 'Share', 'Save', and 'Beautify'. A 'Language' dropdown menu is set to 'C++'. The editor area contains a C++ program that checks if an input character is a vowel or a consonant. The program includes the <iostream> header, uses the std namespace, and defines a main function. Inside main, it declares a char variable 'ch', prompts the user to 'Enter an Alphabet', and uses a switch statement to check for vowels (a, A, e, E, i, I, o, O, u, U). If the character is a vowel, it prints a message; otherwise, it prints 'It is a Consonant'. The program ends with a newline and a return statement. The interface has a dark theme and a blue sidebar on the left.

```
Online C Compiler.  
Code, Compile, Run and Debug C program online.  
Write your code in this editor and press "Run" button to compile and execute .  
*****  
/*Write a C++ program which checks whether an input character is a vowel or no  
#include<iostream>  
using namespace std;  
int main()  
{  
    char ch;  
  
    cout<<"Enter an Alphabet: "<<endl;  
    cin>>ch;  
    switch(ch)  
    {  
        case 'a':  
            cout << "It's vowel a";  
            break;  
        case 'A':  
            cout << "It's vowel A";  
            break;  
        case 'e':  
            cout << "It's vowel e";  
            break;  
        case 'E':  
            cout << "It's vowel E";  
            break;  
        case 'i':  
            cout << "It's vowel i";  
            break;  
        case 'I':  
            cout << "It's vowel I";  
            break;  
        case 'o':  
            cout << "It's vowel o";  
            break;  
        case 'O':  
            cout << "It's vowel O";  
            break;  
        case 'u':  
            cout << "It's vowel u";  
            break;  
        case 'U':  
            cout << "It's vowel U";  
        default:  
            cout<<"It is a Consonant"<<endl;  
            break;  
    }  
  
    cout<<endl;  
    return 0;  
}
```

```
Online C Compiler.  
Code, Compile, Run and Debug C program online.  
Write your code in this editor and press "Run" button to compile and execute .
```

```
*****
```

```
/*Write a C++ program which checks whether an input character is a vowel or not
```

```
#include <iostream>
```

input

Enter an Alphabet:

A

It's vowel A

...Program finished with exit code 0

Press ENTER to exit console.

2. Write a C++ program to

- a. create a text file named FIRST.TXT contains some text written into it,
- b. write a function named copyupper(), that reads the file FIRST.TXT
- c. create a new file named SECOND.TXT contains all words from the file FIRST.TXT in uppercase.
- d. Display the contents of both the file.

```

#include <iostream>
#include <fstream>
#include <string.h>
using namespace std;
void copyupper();
void Display();
int main()
{
    char name[50];
    char course[50];
    cout<<"Enter the name"<<endl;
    cin>>name;
    cout<<"Enter the Course"<<endl;
    cin>>course;

    ofstream obj;
    obj.open("FIRST.txt");
    obj<<name<<endl;
    obj<<course<<endl;
    obj.close();
    copyupper();
    Display();
    return 0;
}
void copyupper()
{
    ifstream obj;
    fstream fout;
    obj.open("FIRST.txt");
    char uppername[30];
    char uppercourse[30];
    obj>>uppername;
    obj>>uppercourse;
    obj.close();

    for (int x=0; x<strlen(uppername); x++)
    {
        uppername[x] =toupper(uppername[x]);
    }

    for (int x=0; x<strlen(uppercourse); x++)
    {
        uppercourse[x] =toupper(uppercourse[x]);
    }

    fout.open("SECOND.TXT");

    fout<<uppername<<endl;
    fout<<uppercourse<<endl;

    fout.close();
}

```



```

void copyupper()
{
    ifstream obj;
    fstream fout;
    obj.open("FIRST.txt");
    char upername[30];
    char uppercourse[30];
    obj>>upername;
    obj>>uppercourse;
    obj.close();

    for (int x=0; x<strlen(upername); x++)
    {
        upername[x] =toupper(upername[x]);
    }

    for (int x=0; x<strlen(uppercourse); x++)
    {
        uppercourse[x] =toupper(uppercourse[x]);
    }

    fout.open("SECOND.TXT");

    fout<<upername<<endl;
    fout<<uppercourse<<endl;

    fout.close();
}

void Display()
{
    ifstream obj;
    fstream fout;
    obj.open("FIRST.txt");
    char NameFromFile[30];
    char CourseFromFile[30];
    obj>>NameFromFile;
    cout<<"Name from the (FIRST.txt) file is "<<NameFromFile<<endl;
    obj>>CourseFromFile;
    cout<<"Course from the (FIRST.txt) file is "<<CourseFromFile<<endl;
    obj.close();

    obj.open("SECOND.txt");
    obj>>NameFromFile;
    cout<<"Name from the (SECOND.txt) file is "<<NameFromFile<<endl;
    obj>>CourseFromFile;
    cout<<"Course from the (SECOND.txt) file is "<<CourseFromFile<<endl;
    obj.close();
}

```

