***Compiler Construction***

***CSC-323***

***Lab Journal 1***

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**BSCS (5A)**

**Department of Computer Science**

**BAHRIA UNIVERSITY, ISLAMABAD**

**Lab # 1: Refresh C/C++ Programming**

**Objectives:**

To learn how to implement the Simulation of Compiler modules.

**Tools Used:**

* DevC++

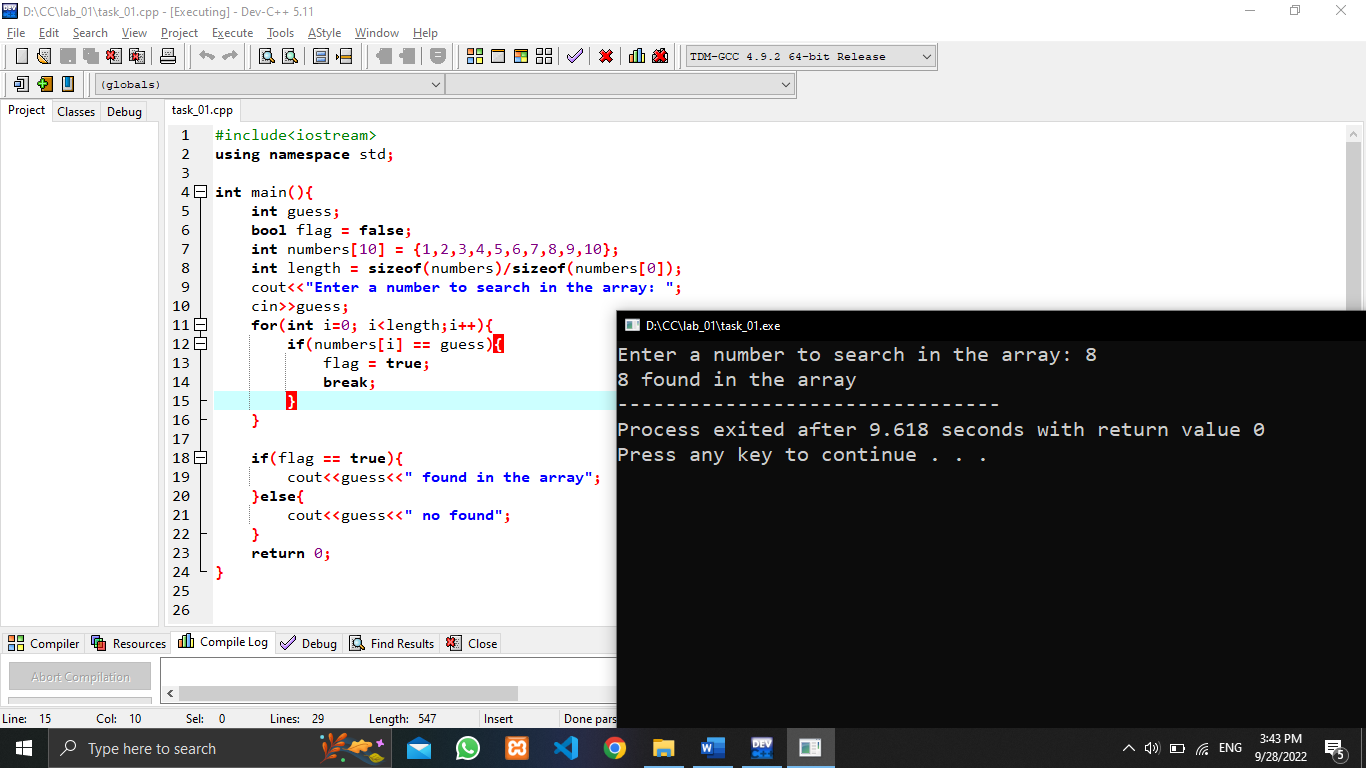
**Submission Date:** Wednesday, September 28, 2022

**Evaluation: Signatures of Lab Engineer:**

**Task # 1:**

**Write a program that initializes an array. It inputs a value from the user and searches the number in the array.**

**Program/Procedure:**



**Analysis:**

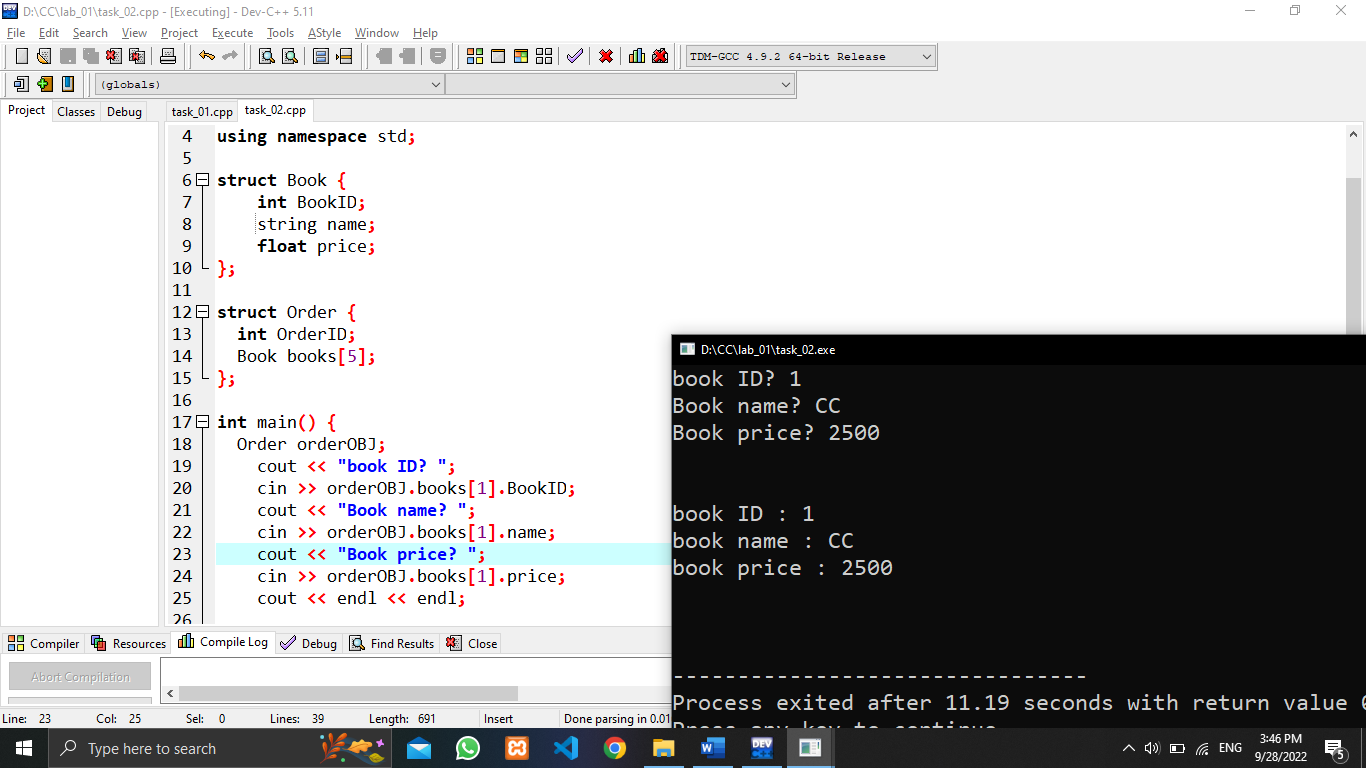
This program takes an input ‘guess’ from the user and search for the guess weather exists in the array

* Array initialization
* User input
* Output based on guess

**Task # 2:**

**Write a program that declares a structure Book to store BookID, book name and price. It declares another structure Order that contains OrderID and an array of Book of length 5. The program should define a variable of type Order and input the values from the user. The program finally displays the values.**

**Program/Procedure:**



**Analysis:**

This program initializes BookID, names and OrderID using structs.

* Initialization
* User inputs the OrderID and name
* Output via struct object

**Task # 3:**

**Write a program to input five integers in an array and display them using pointers.**

**Program/Procedure:**

Text

Description automatically generated

**Analysis:**

This program returns and array of 5 numbers using pointers.