BSc (Hons) in Information Technology
Year 1

Lab Sheet 01

IT1010 – Introduction to Programming Semester 1, 2022

Objectives:
At the end of the class the students should be able to:

- Create a source code file using Dev C++ to write a C program.
- Use printf statement in C programming.

Exercise 1

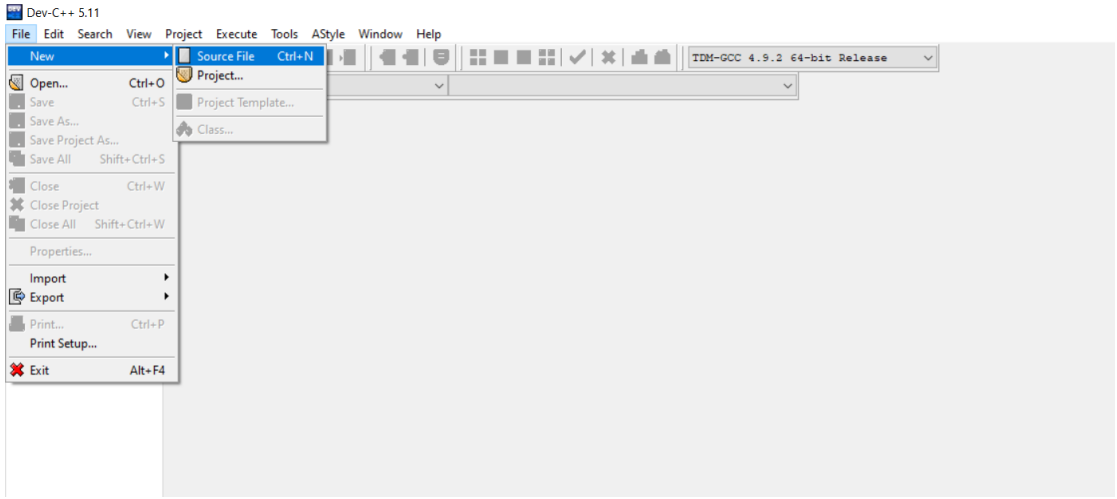
Follow the following steps to write a simple C program using Dev C++ IDE.

1. First, create a folder in your desktop or C drive and name it as **Lab1**.

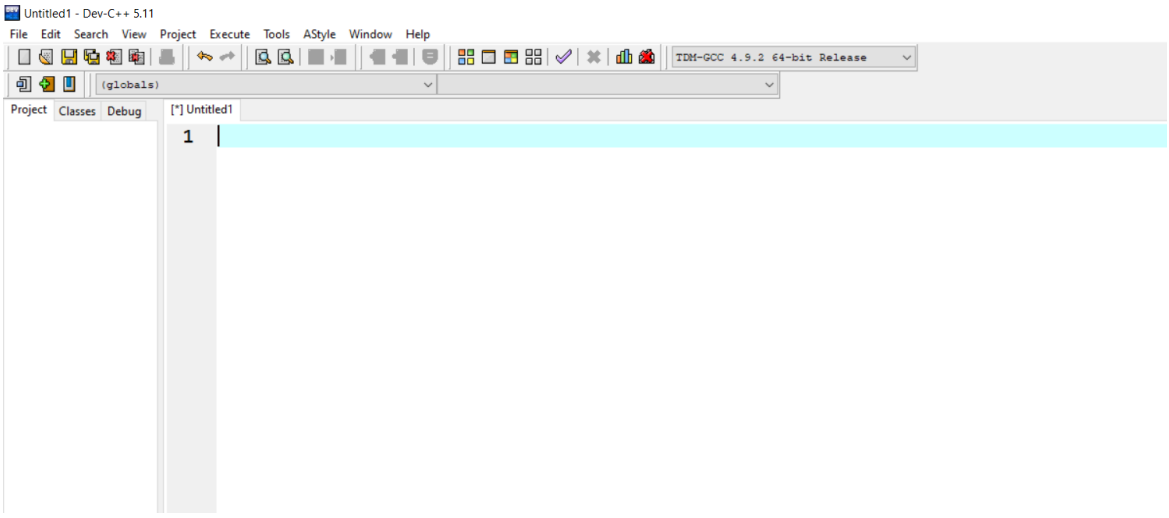
Lab1
Folder

2. Next open Dev C++ IDE and select

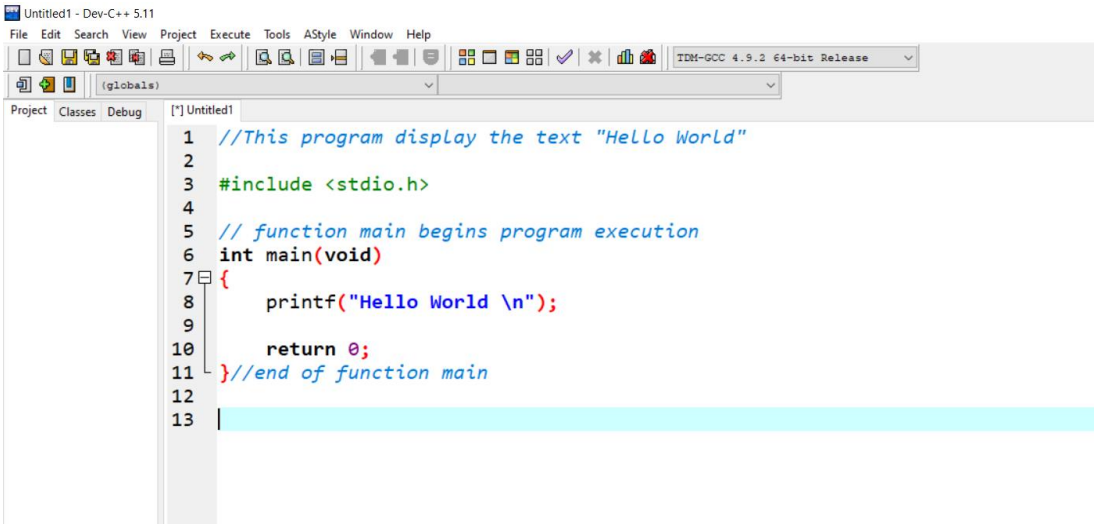
File → New → Source File



3. A source file will be created as shown below.

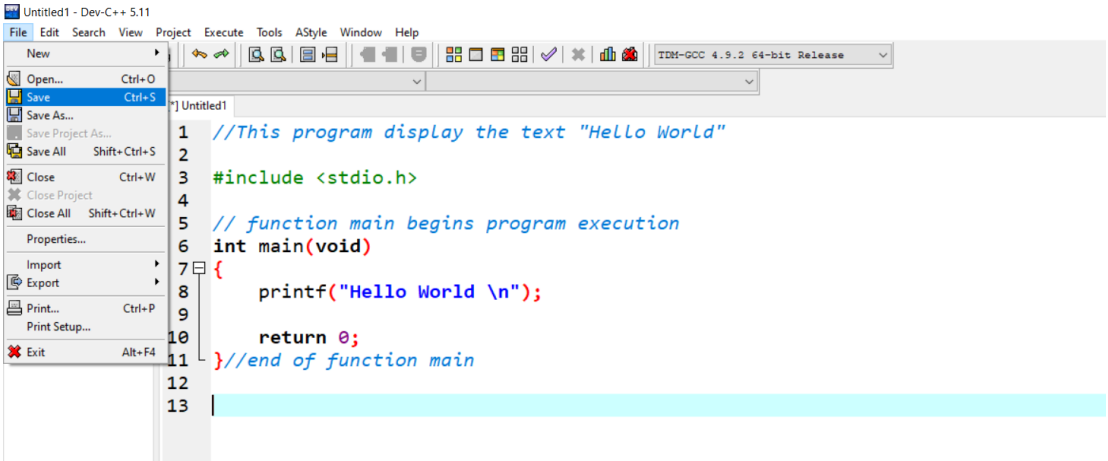


4. Now, type the following program.



5. Save the source file as **exercise1** inside the folder **Lab1** in your desktop.

File ⟶ Save



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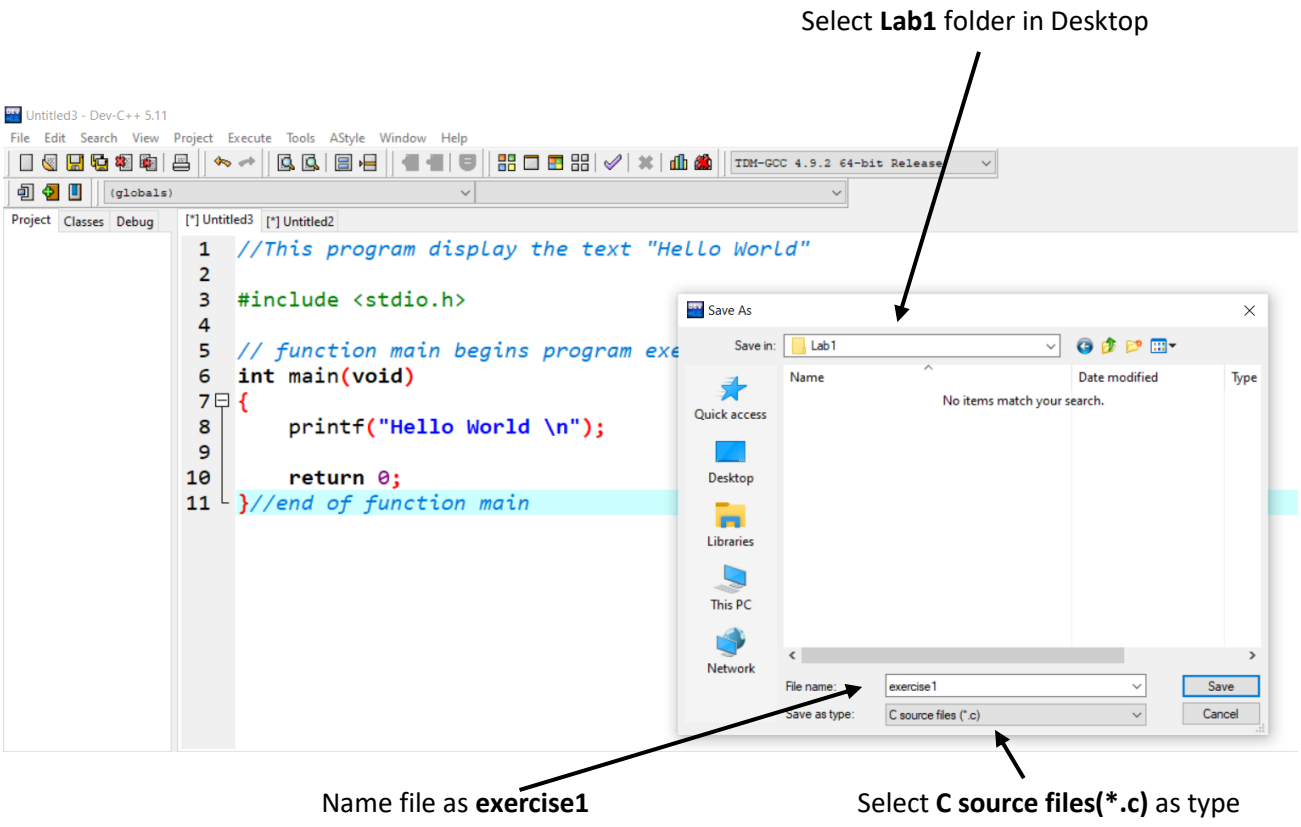
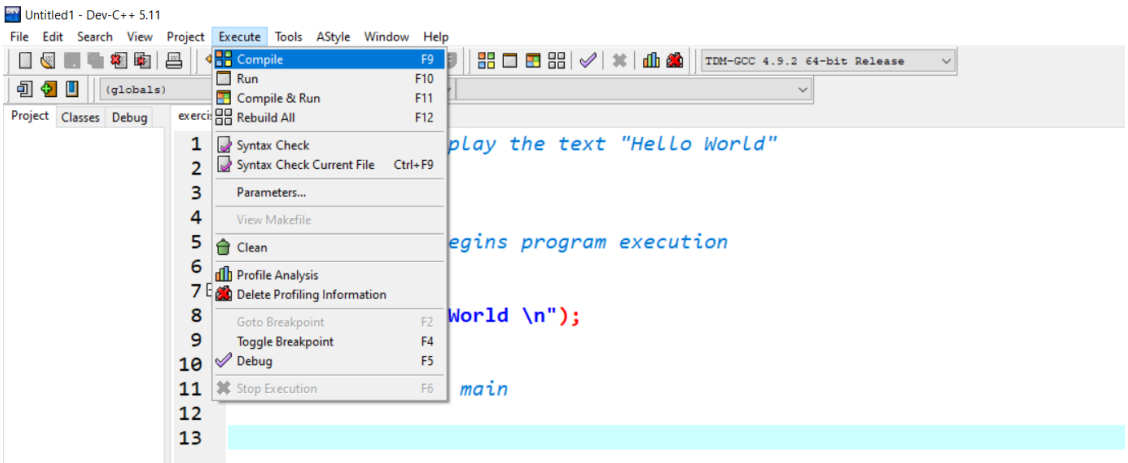


Here, you have saved your source file as a C file called **exercise1.c**

6. Compile C file.

   Execute ⟶ Compile



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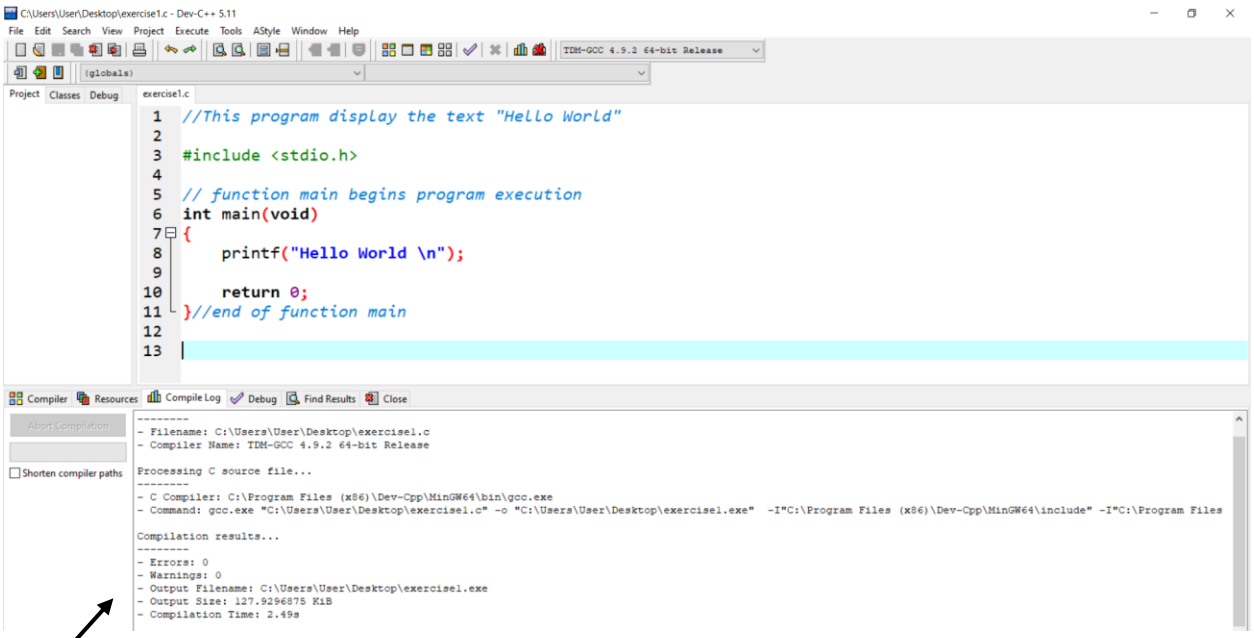
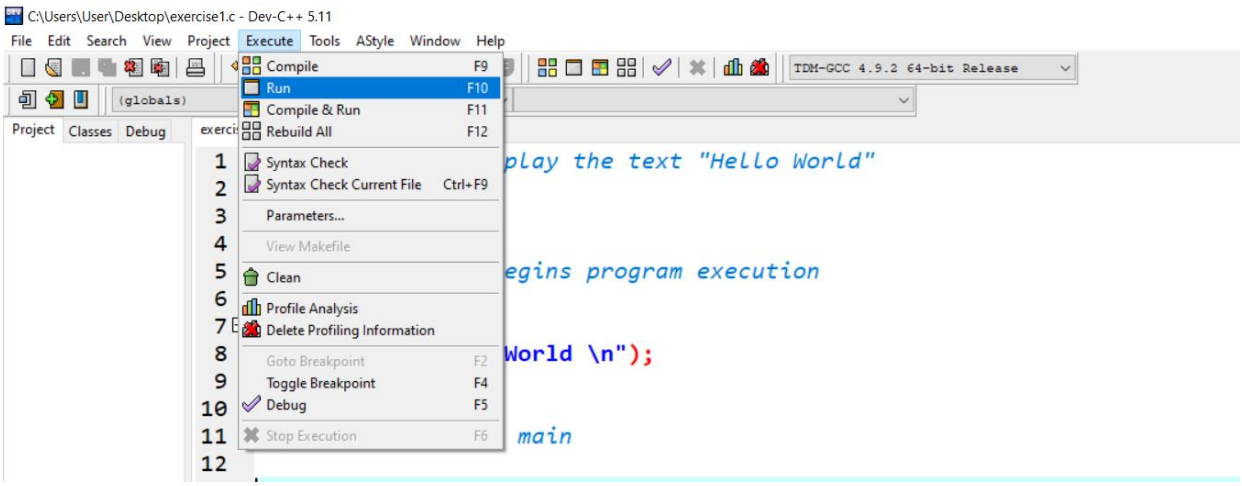
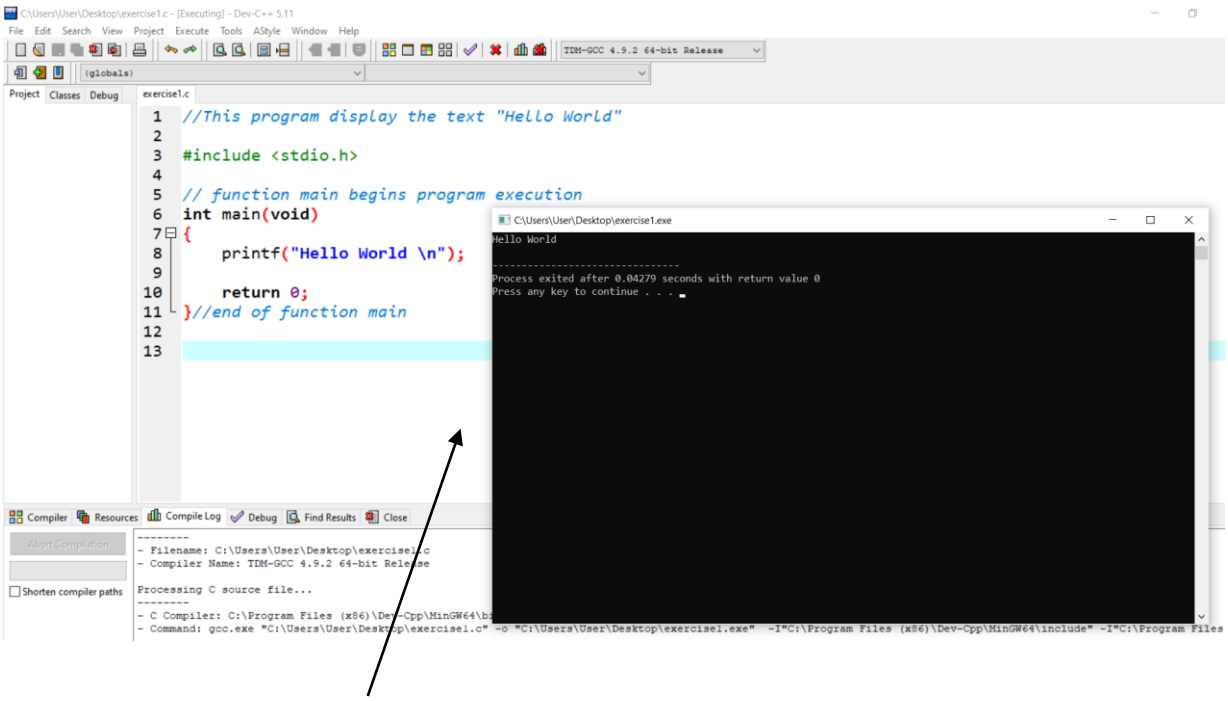


Compilation errors and warnings

7. If you have zero errors and warnings, execute the C program.

   Execute ⟶ Run





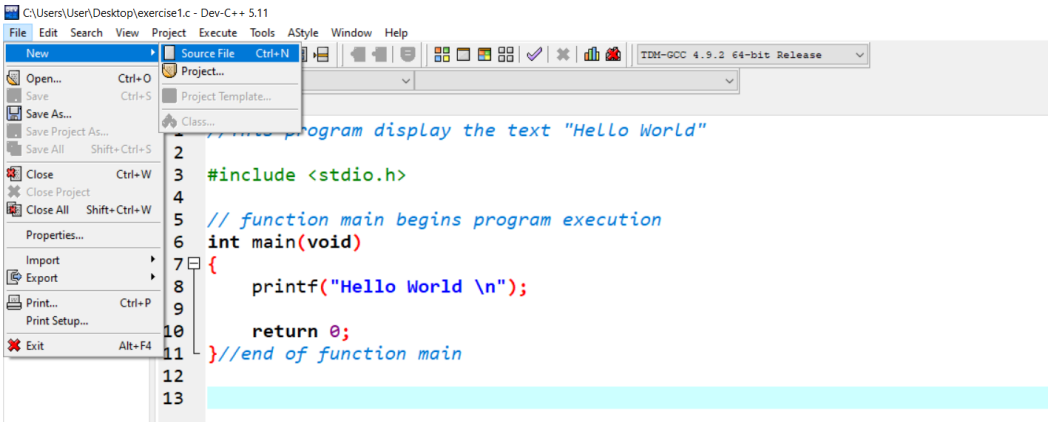
Output of the C program

Exercise 2

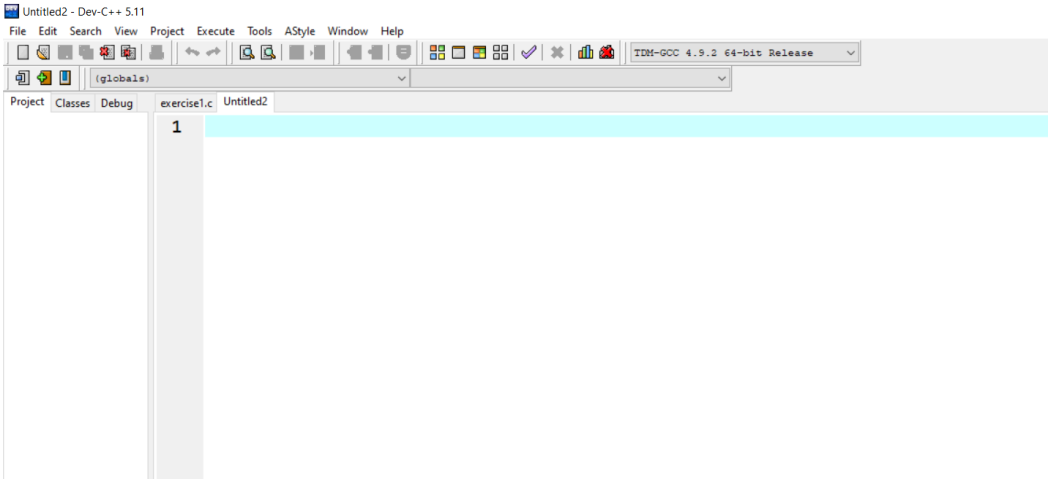
Write a C program to display the message “My First C program” with the words separated by tabs. (Hint : You need to use **\t** to keep tab spaces between these words)

1. Create another source file

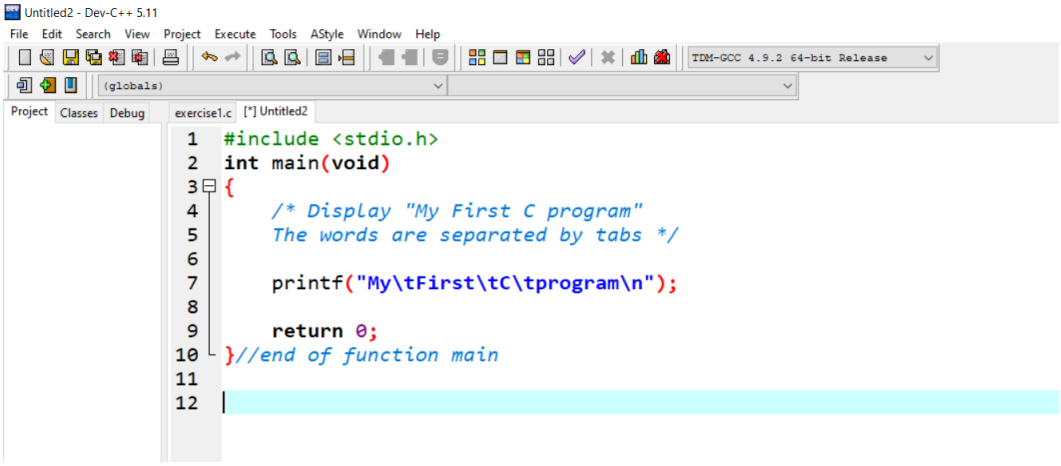
   File → New → Source File



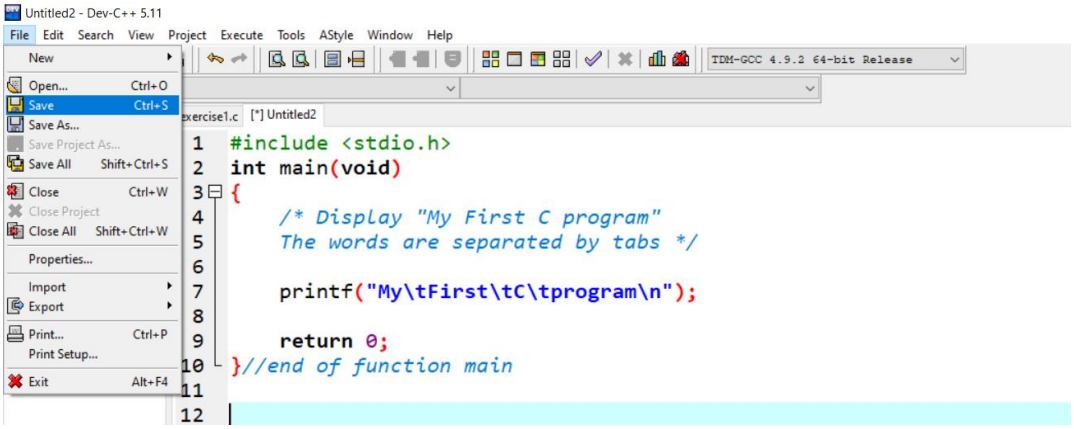
2. As follwing, a new source file will be created.



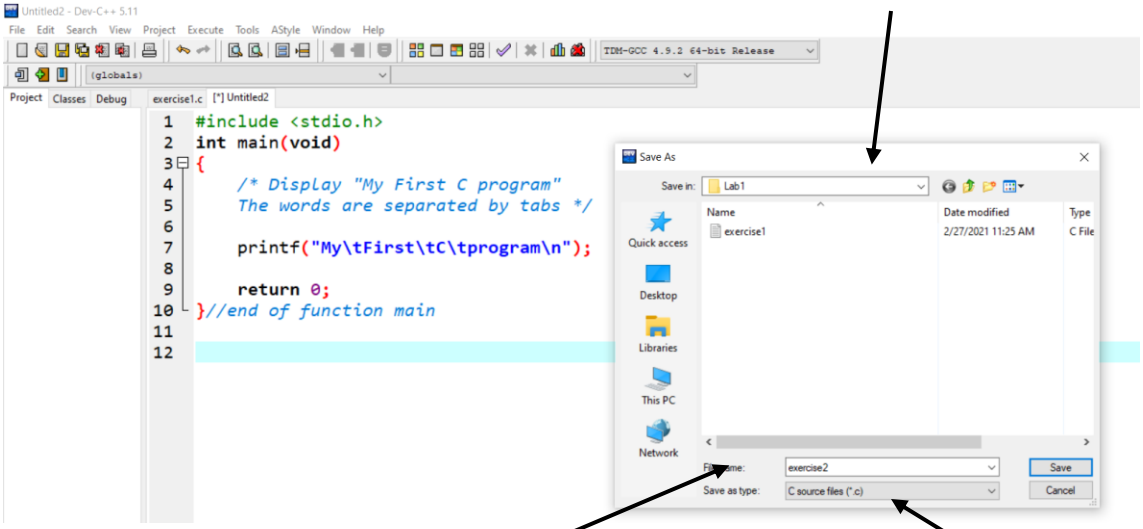
3. Now, type the relevant program.



4. Save the source file as **exercise2** inside the folder **Lab1** in your desktop.
   File → Save



We can use same folder **Lab1** to save second C program

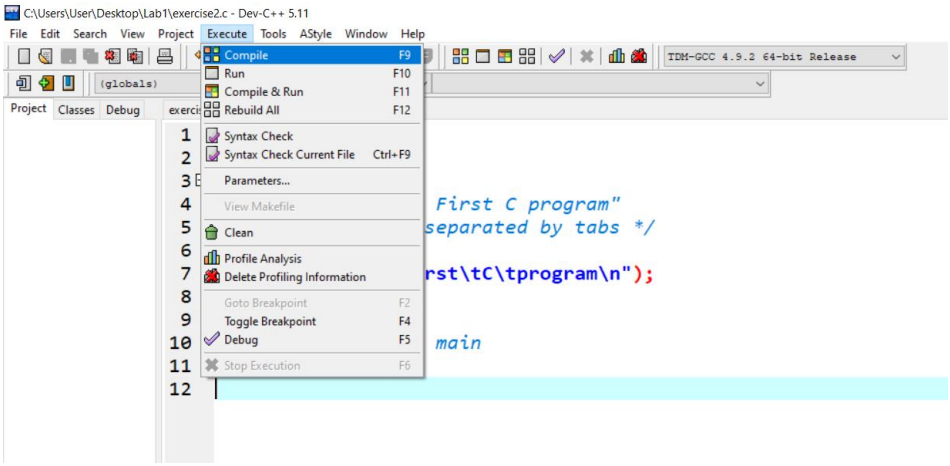


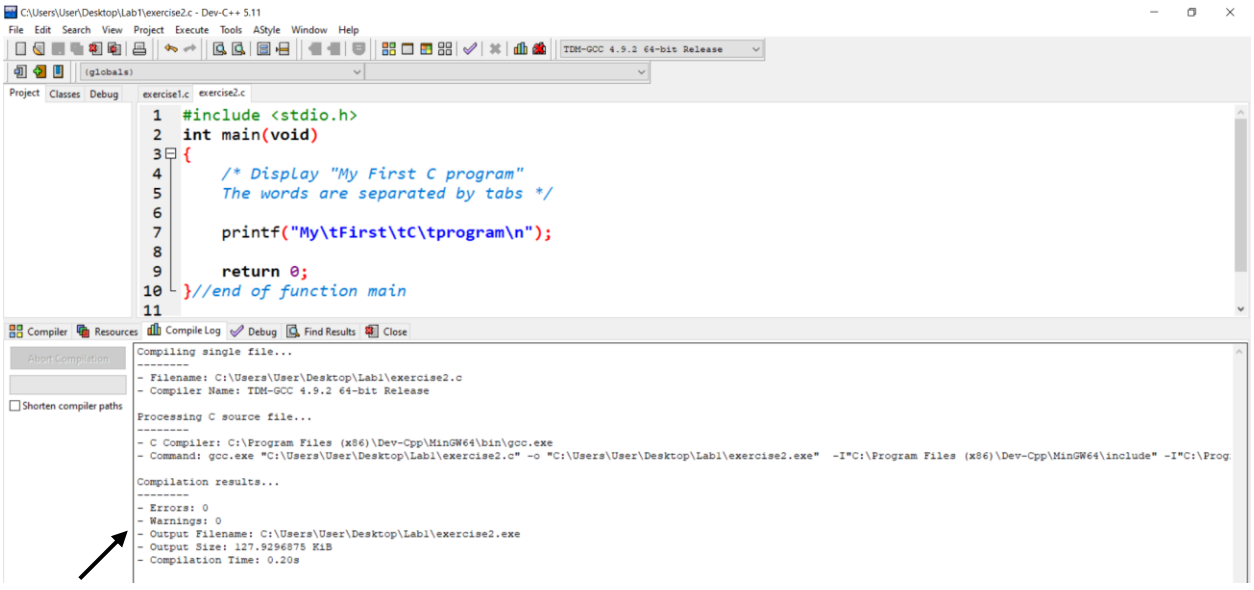
Name C file as **exercise2**

Select **C source files(*.c)** as type

5. Compile the program.

   Execute ⟶ Compile

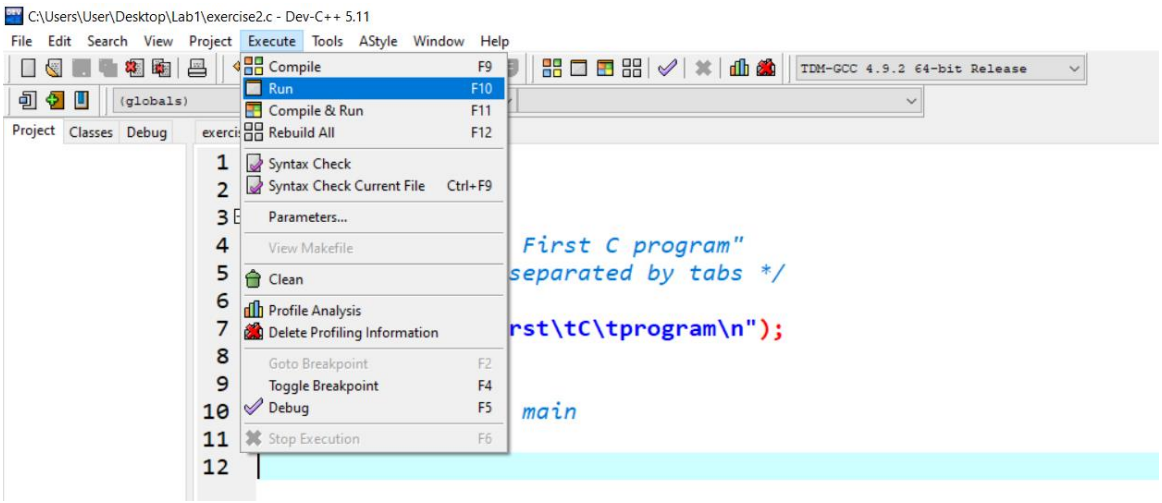


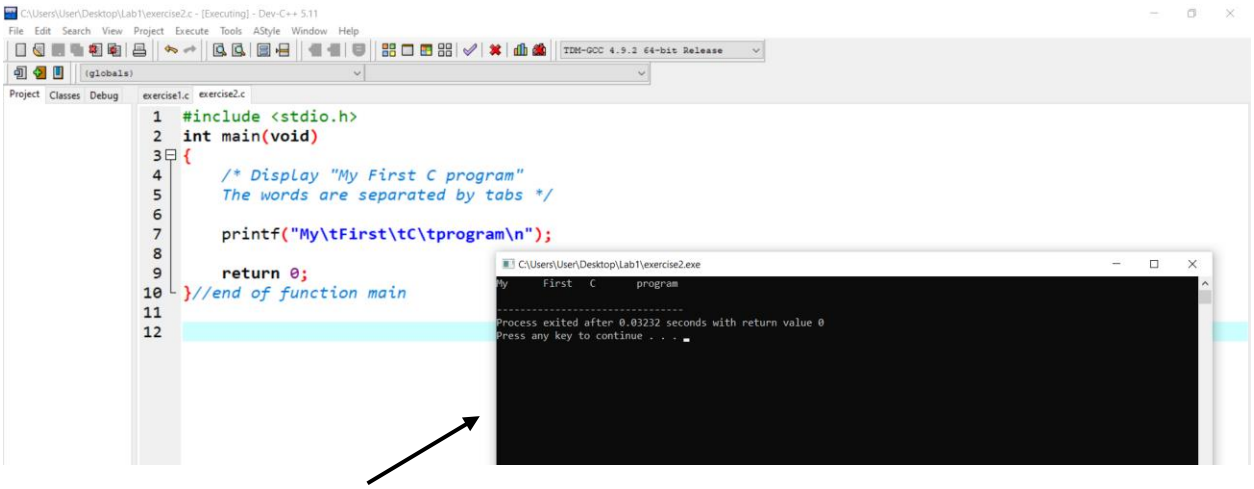


Compilation errors and warnings

6. Run the program.

   Execute ⟶ Run





Output of the second C program

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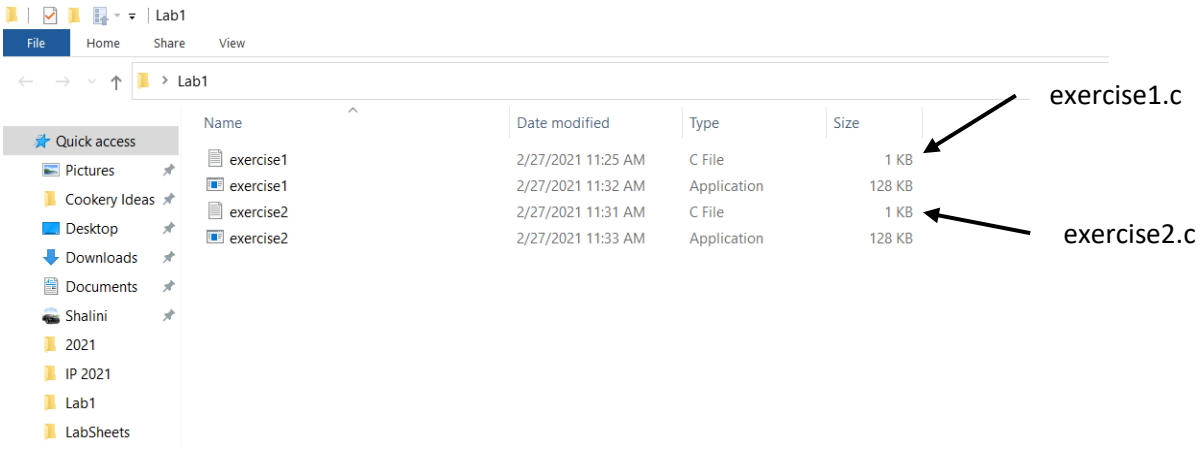
Here, you can store all the C files that are created in Lab sheet 01 within same folder.

Inside the **Lab1** folder in your Desktop, now there are two C files that we have saved earlier.



Exercise 3

Write a C program to print your name, date of birth and student ID number in following format.

(Hint : Use one printf statement)

Name : Thedas Perera
DOB : July 14, 1999
ID : IT21234567

Exercise 4

Write a C program to print following table format that includes Student name and prefered subject.

(Hint : use **\n** and **\t** to to format your output)

```
===============
Name    Subject
===============
Amal    English
Mali    Sinhala
Nipun   History
```