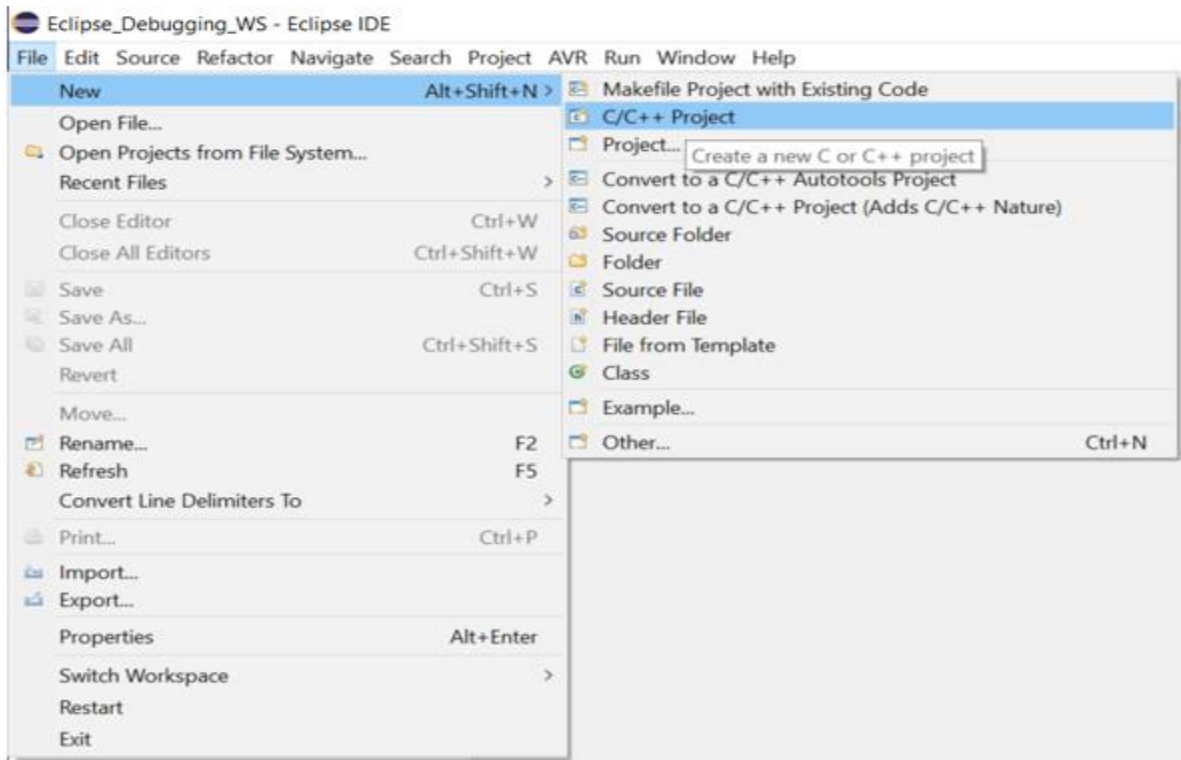


How To Use Eclipse

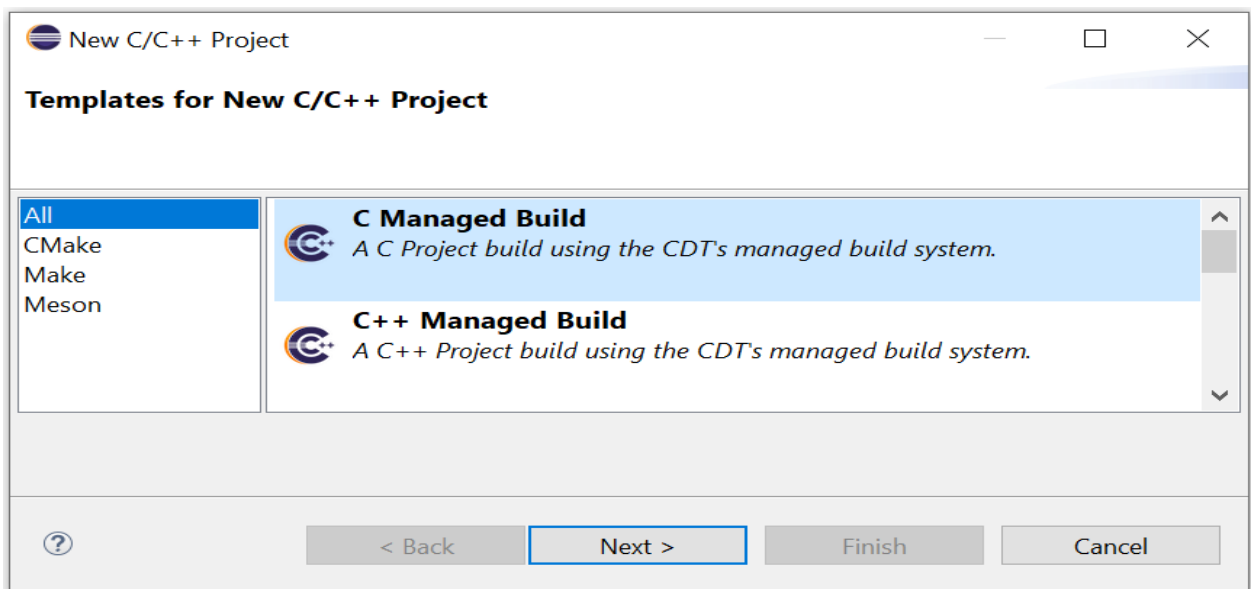
Engineer / Mohamed Tarek

Creating a C Project

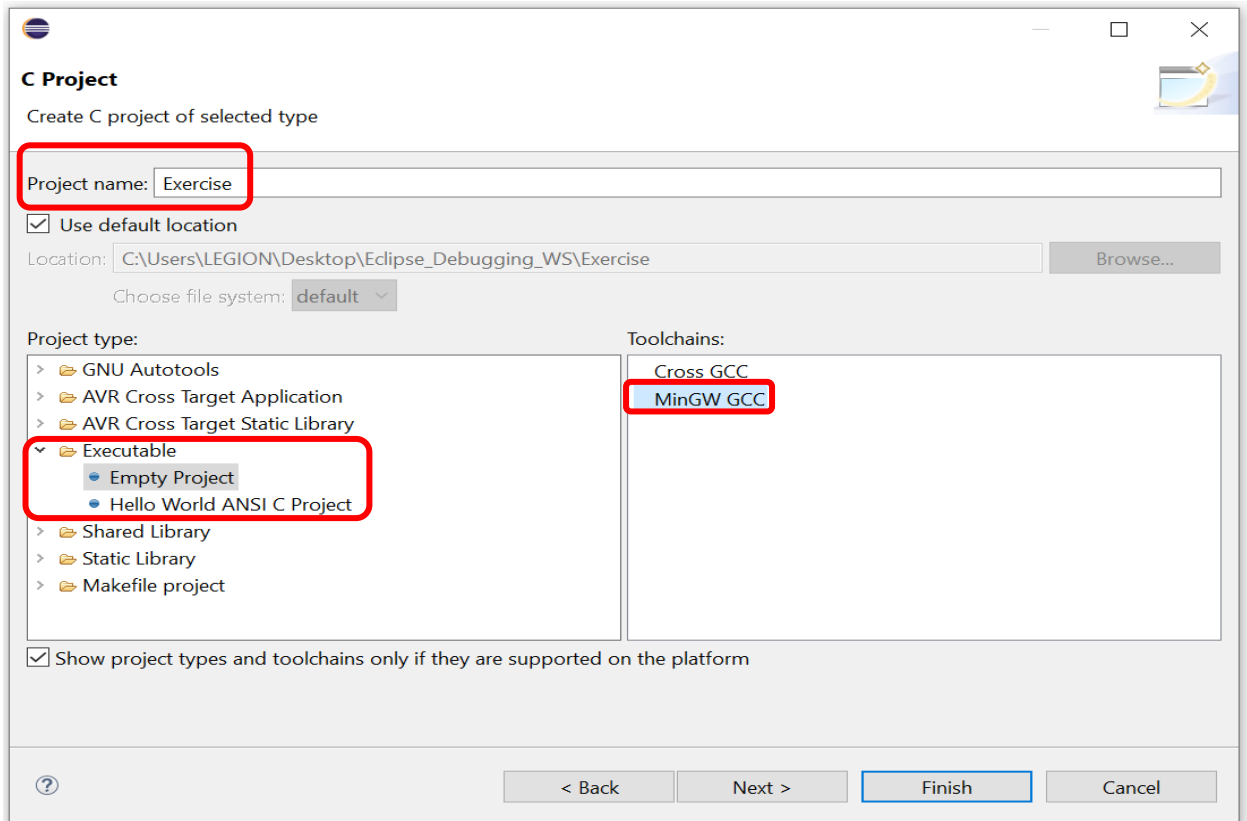
1. Select **File > New > C/C++ Project**.



2. Select **C Managed Project > Next**

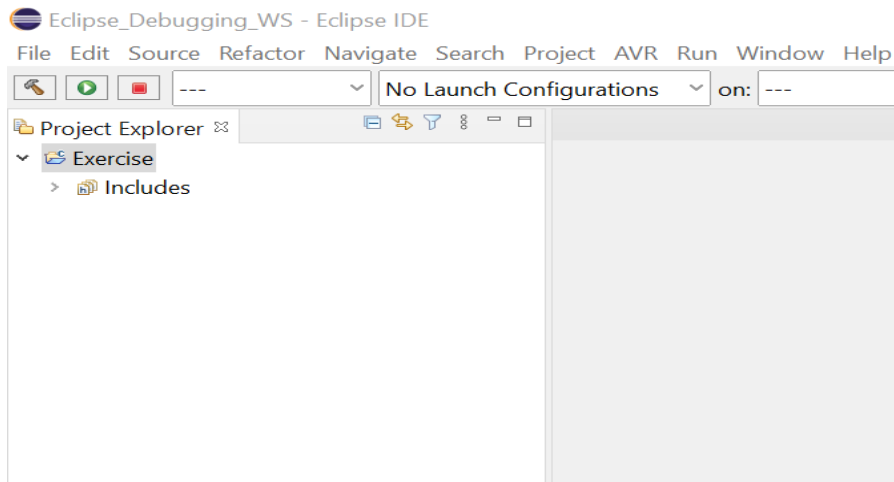


3. Select **Executable** Project then **Empty Project** and write the **project name**.
Note: Project name should contain capital & small letters, digits and underscore only.
4. Choose the Toolchain to be **MinGW GCC**.

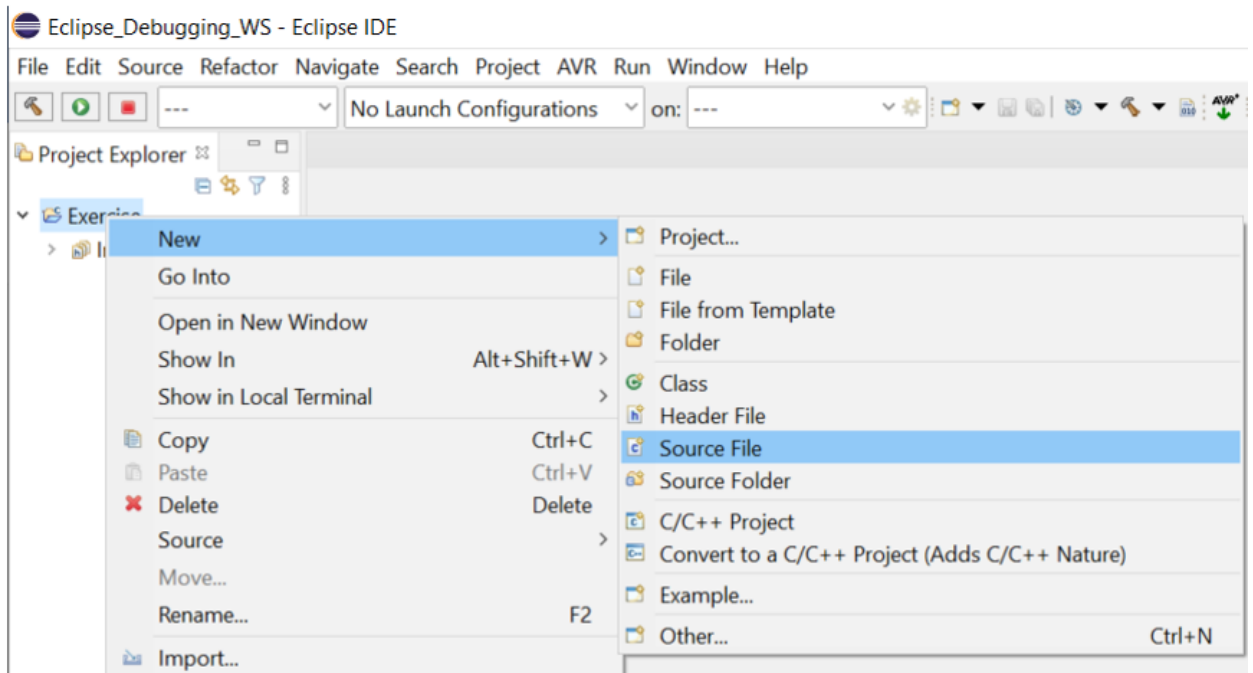


5. Select **Finish**.

6. Now you have a new C Project.



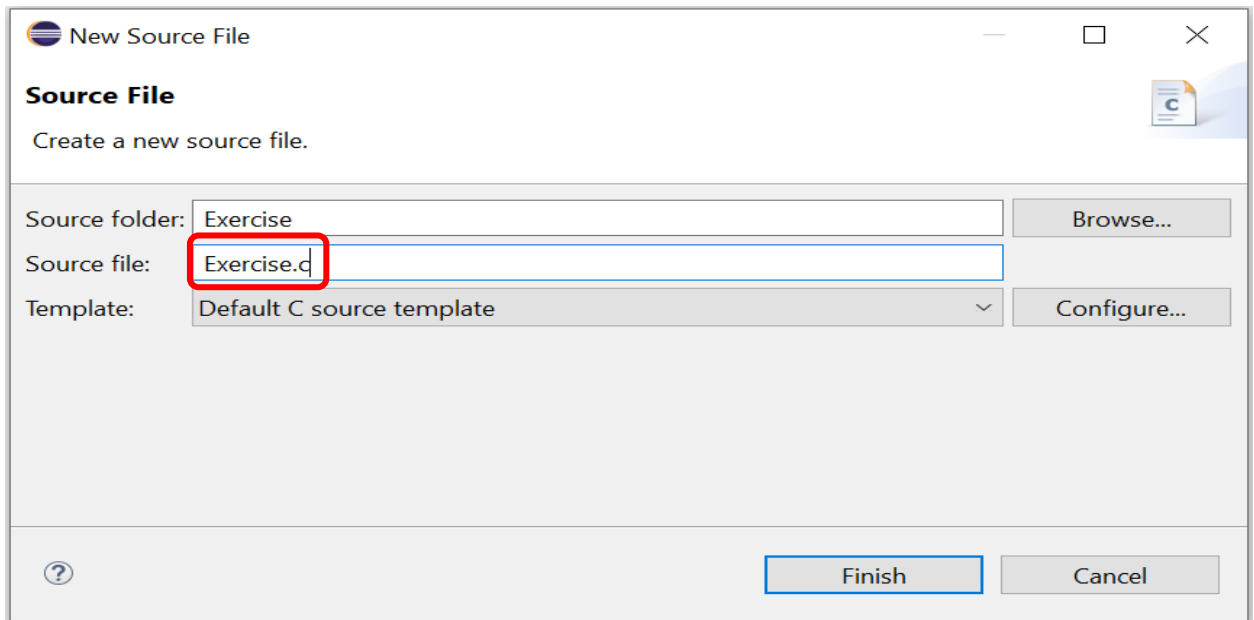
7. You need to create a source file to write your code. So right click on your project then select **New** then **Source File**.



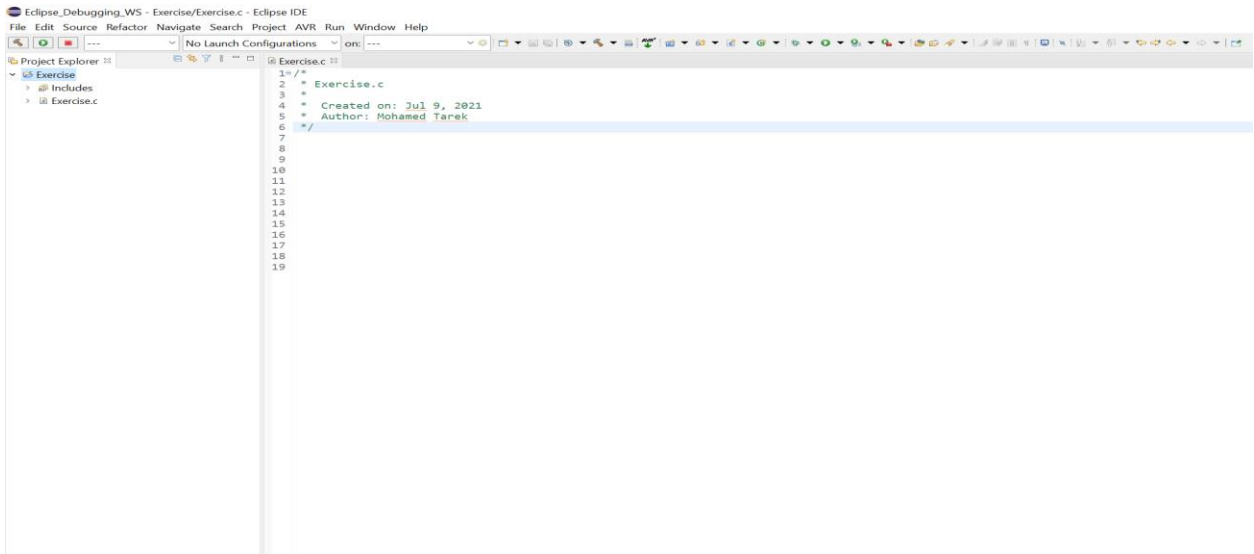
8. Write the file name and press **finish**.

Notes:

- File name should contain capital & small letters, digits and underscore only.
- File extension should be .c

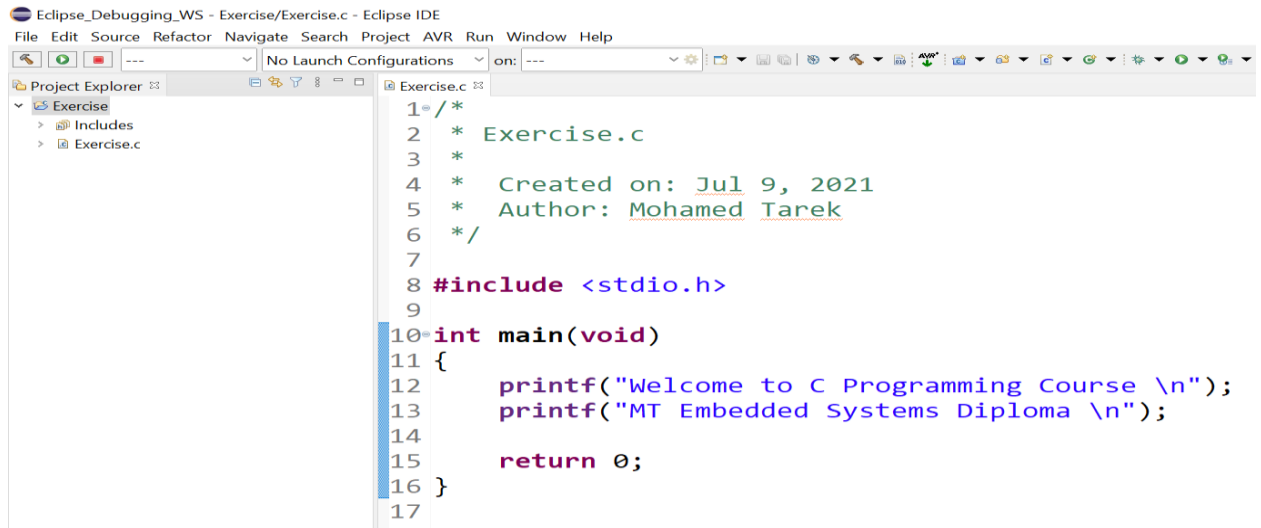


9. Start Implementing your code.



Build a C Project

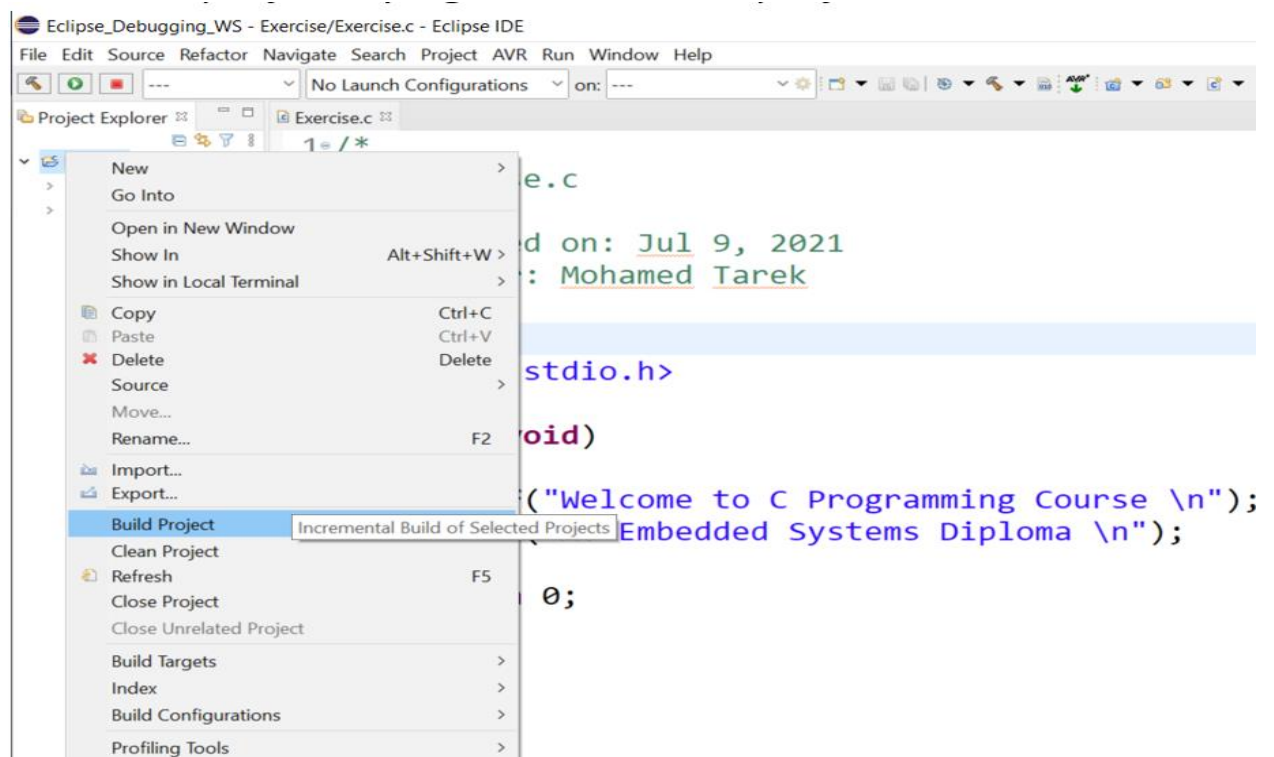
1. Get your code ready.
2. Make sure that your files are **saved** before building the code by pressing **CTRL + S**.



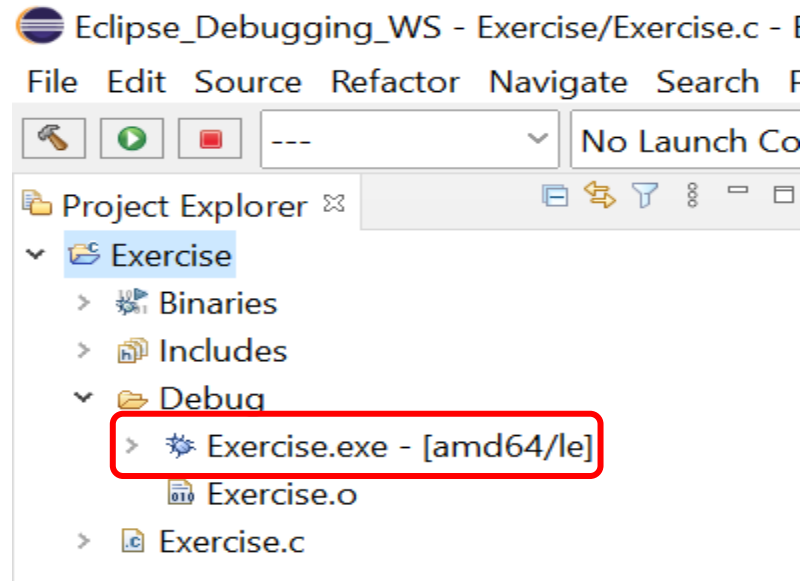
The screenshot shows the Eclipse IDE interface. The Project Explorer on the left shows a project named 'Exercise' with sub-items 'Includes' and 'Exercise.c'. The main editor window displays the contents of 'Exercise.c'. The code is as follows:

```
1 /*  
2  * Exercise.c  
3  *  
4  * Created on: Jul 9, 2021  
5  * Author: Mohamed Tarek  
6  */  
7  
8 #include <stdio.h>  
9  
10 int main(void)  
11 {  
12     printf("Welcome to C Programming Course \n");  
13     printf("MT Embedded Systems Diploma \n");  
14  
15     return 0;  
16 }  
17
```

3. Build the project by right click on the project and then select **Build Project**.



4. If there are **NO build errors** in your code and the project build successfully. You will get the **project executable .exe file** inside the debug directory in your project and you can **Run** your project now.



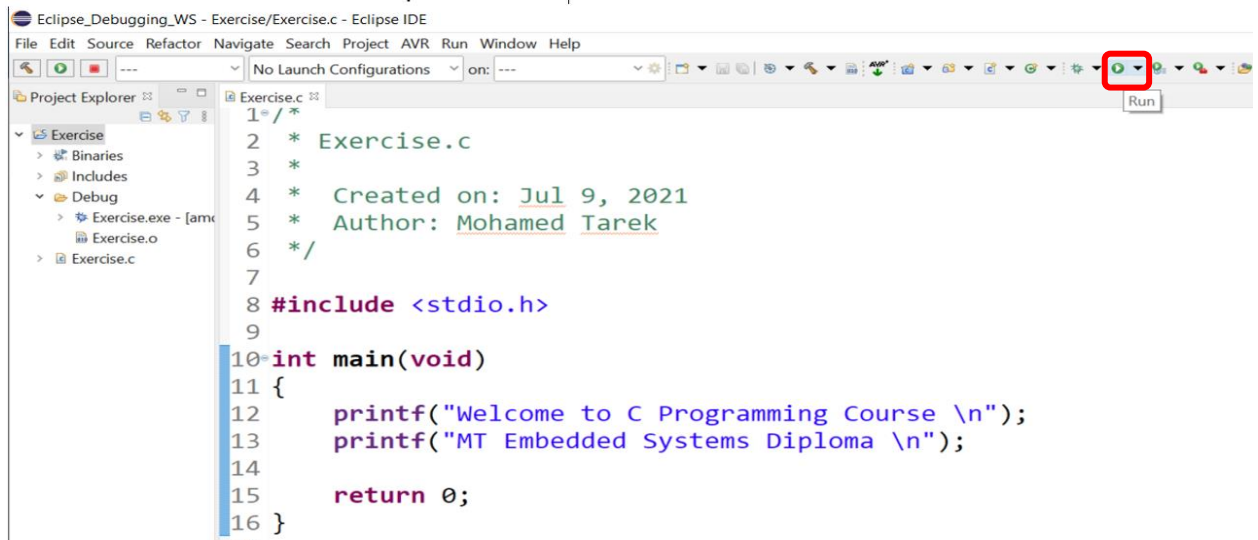
5. If there are **build errors** in your code, you can check it from the problems tab and fix them.

For example if there is a missing ; in one code lines.

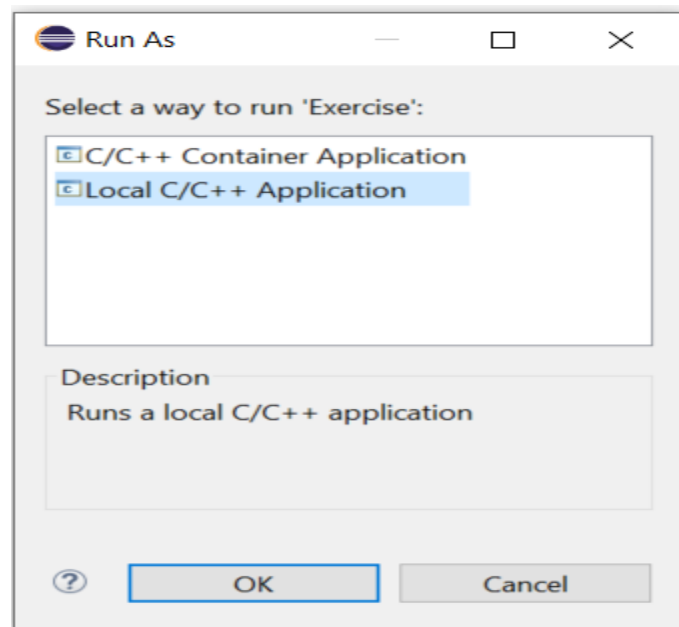
Problems Tasks Console Properties AVR Device Explorer AVR Supported MCUs				
1 error, 0 warnings, 0 others				
Description	Resource	Path	Location	Type
Errors (1 item)				
expected ';' before 'printf'	Exercise.c	/Exercise	line 12	C/C++ Problem

Run a C Project

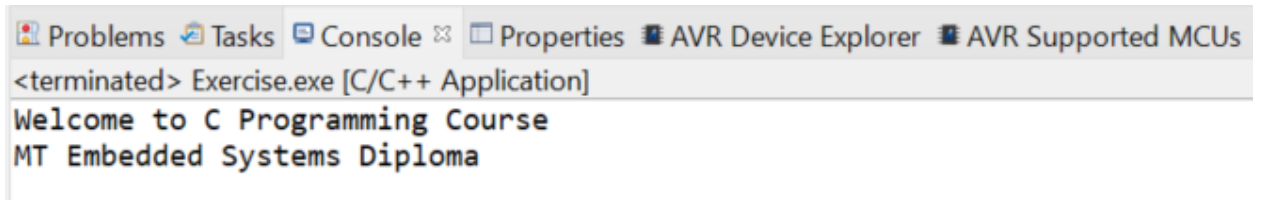
1. **Select your project** first from the **Project Explorer** by pressing left click on it.
2. Press the **Run** button from eclipse tool bar.



3. This will create a **Run configuration** for your project.
4. Select **Local C/C++ Application** then **ok**



5. Check your project output in eclipse **Console**.



The screenshot shows the Eclipse IDE's Console window. The title bar includes tabs for Problems, Tasks, Console, Properties, AVR Device Explorer, and AVR Supported MCUs. The Console window displays the output of a program named Exercise.exe, which is a C/C++ application. The output text is: <terminated> Exercise.exe [C/C++ Application], Welcome to C Programming Course, and MT Embedded Systems Diploma.

```
<terminated> Exercise.exe [C/C++ Application]
Welcome to C Programming Course
MT Embedded Systems Diploma
```

Thank You & Good Luck
Engineer / Mohamed Tarek