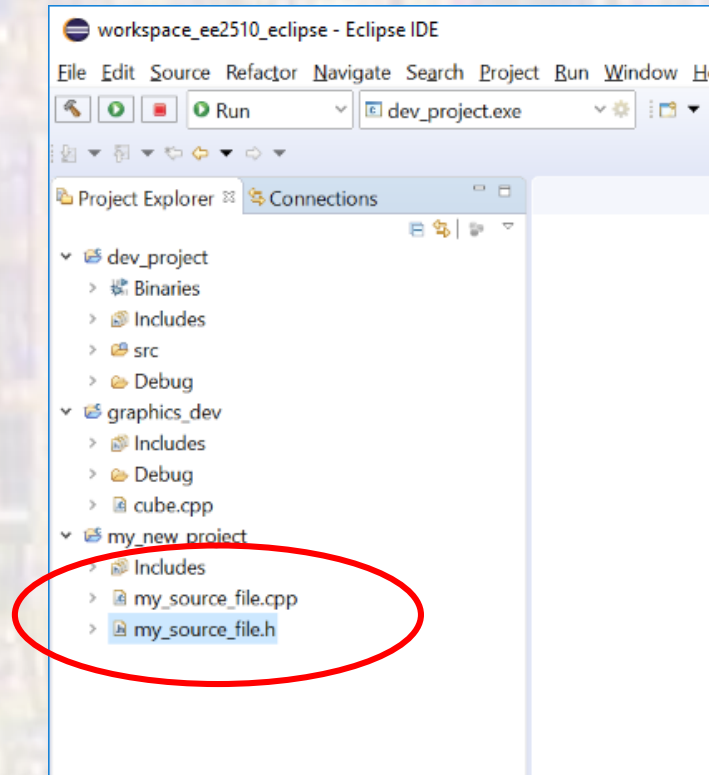


# Eclipse CPP Project Example

Last updated 3/6/19

# Eclipse CPP Project Example

- Create a project (Eclipse CPP Project Setup)



# Eclipse CPP Project Example

- Edit my\_source\_file.cpp

```
1  /*
2   * my_source_file.cpp
3   *
4   * Created on: Jan 11, 2019
5   * Author: johnsontimoi
6   */
7
8  // Message source file
9  //
10 // Includes my message function
11 //
12
13 #include <iostream>
14 using namespace std;
15
16 ///////////////////////////////////////////////////////////////////
17 //
18 // function to print out a single integer value
19 //
20 // output - side effect (prints value)
21 //
22 // inputs - value to print
23 //          type int
24 //
25 ///////////////////////////////////////////////////////////////////
26 void message(int val){
27     cout << val << endl;
28
29     return;
30 } // end message
31
```

Description of File

Description of function

Function Definition

# Eclipse CPP Project Example

- Edit my\_source\_file.h
  - Copy the function declaration and description

Conditional  
Define

```
1  /*
2   * my_source_file.h
3   *
4   * Created on: Jan 11, 2019
5   * Author: johnsontimoi
6   */
7
8  // Message source file
9  //
10 // Includes my message function
11 //
12
13 #ifndef MY_SOURCE_FILE_H_
14 #define MY_SOURCE_FILE_H_
15
16 ///////////////////////////////////////////////////
17 //
18 // function to print out a single integer value
19 //
20 // output - side effect (prints value)
21 //
22 // inputs - value to print
23 //          type int
24 //
25 ///////////////////////////////////////////////////
26 void message(int val);
27
28 #endif /* MY_SOURCE_FILE_H_ */
29
```

Description of File

Description of function

Function Declaration

# Eclipse CPP Project Example

- Create a top level .cpp file my\_top\_source\_file.h

```
1  /*
2  * my_top_source_file.cpp
3  *
4  * Created on: Jan 11, 2019
5  * Author: johnsontimoi
6  */
7
8  // Top level file for Eclipse example
9  //
10
11 #include "my_source_file.h"
12 #include "windows.h"
13
14 #include <iostream>
15 using namespace std;
16
17 int main(void){
18     int cnt;
19     cnt = 0;
20     while (1){
21         message(cnt);
22         Sleep(1000);
23         cnt++;
24     } // end while
25 } // end main
26
27
```

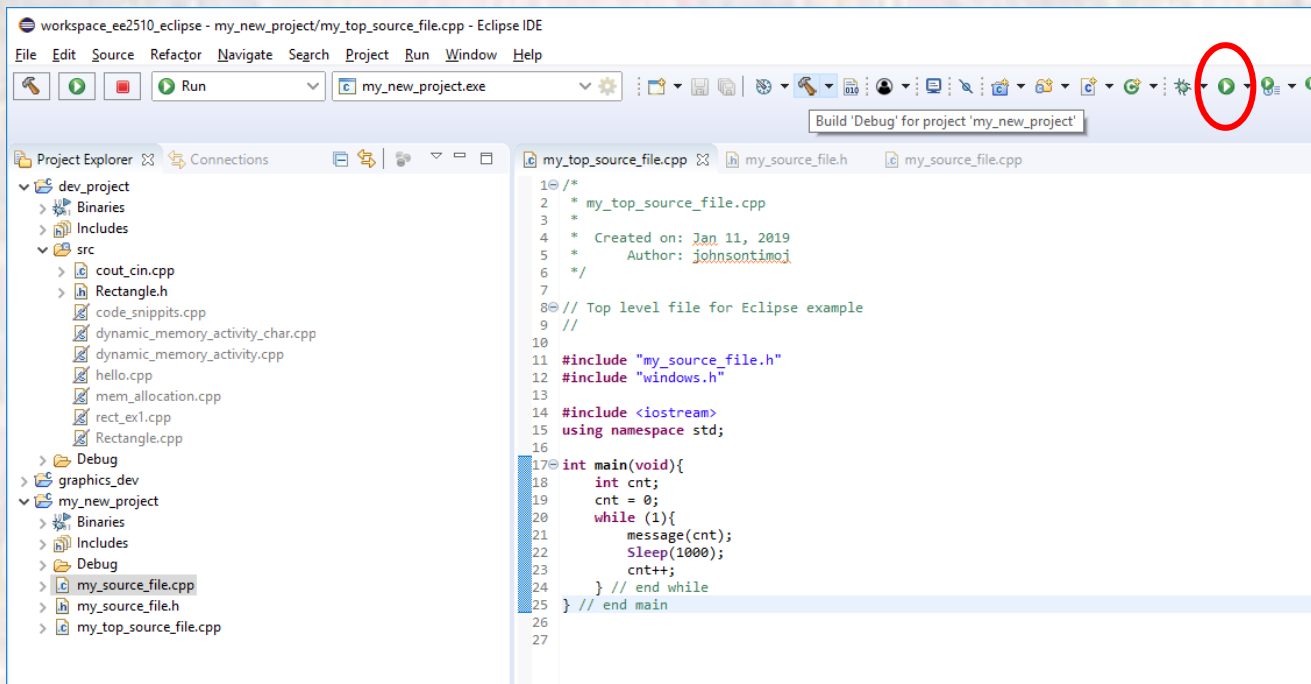
Includes

Description of File

Main program

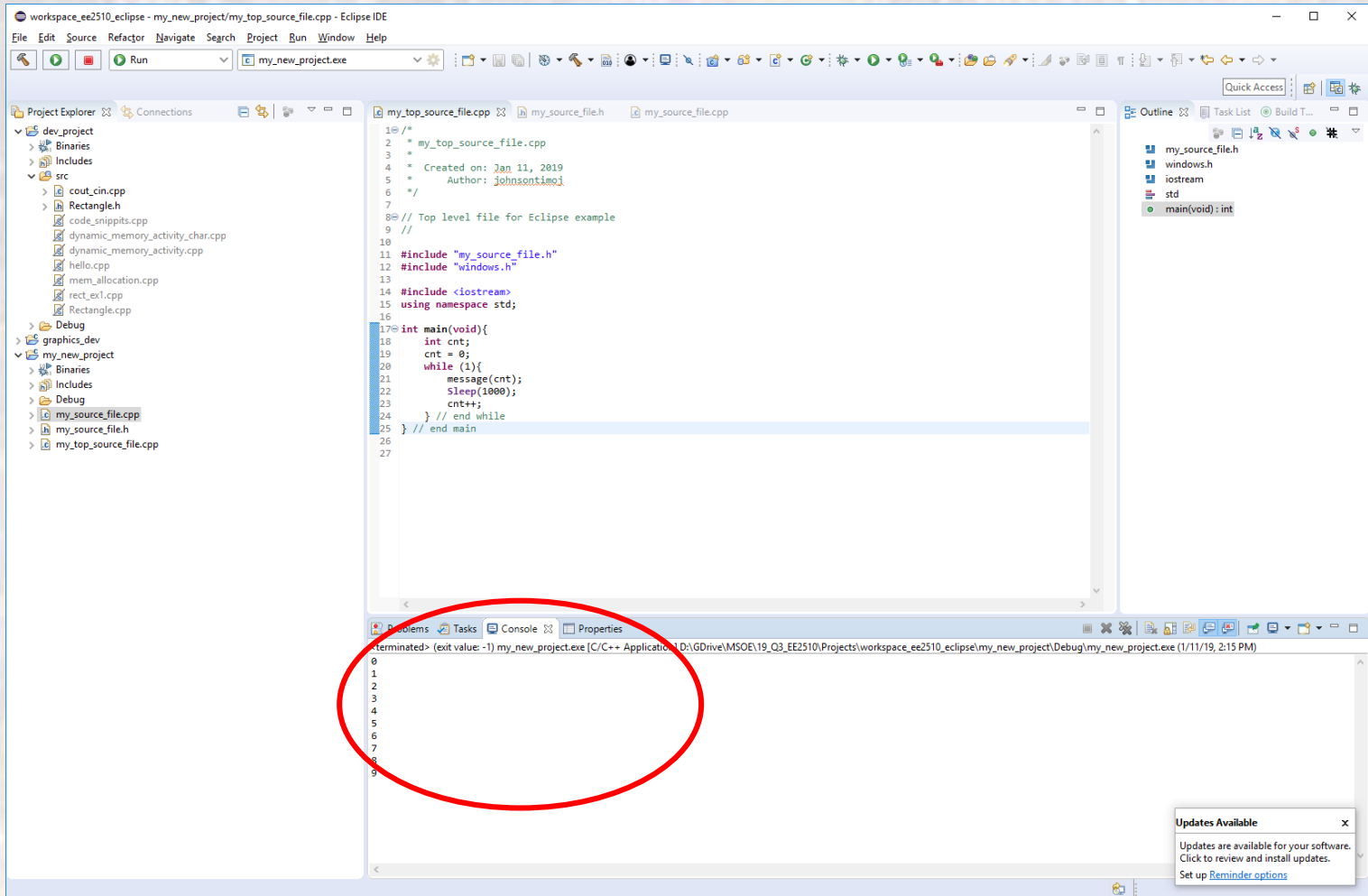
# Eclipse CPP Project Example

- Save all the files
- Build your project (Project → Build Project)
- Run the project
  - Click the arrow



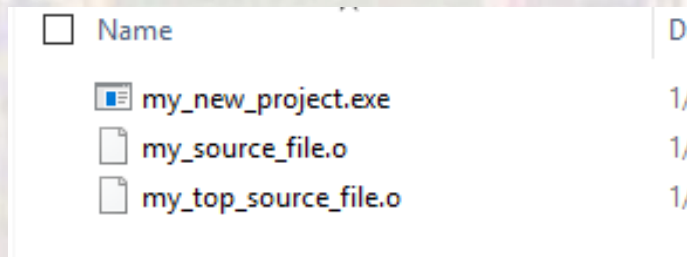
# Eclipse CPP Project Example

- Watch your program run in the console window

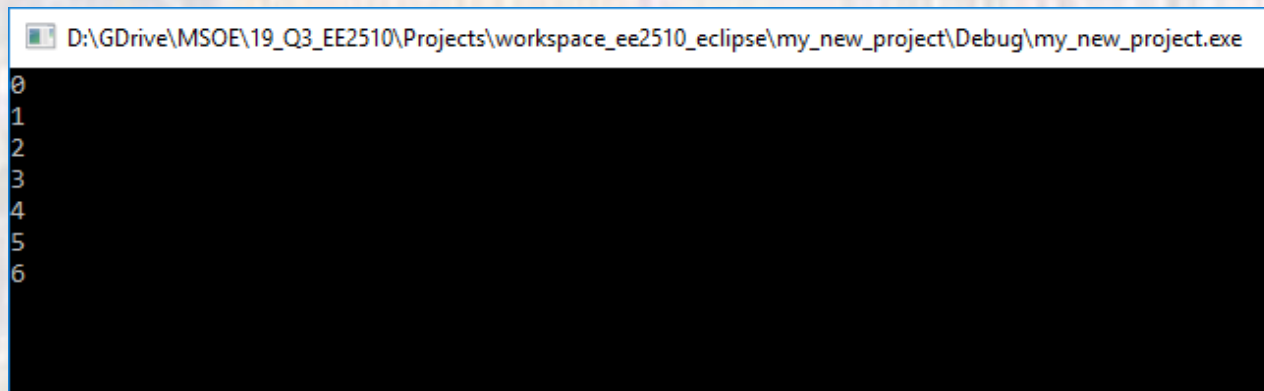


# Eclipse CPP Project Example

- Alternate run method
  - Build your project as before
  - Go to the debug directory in your project via windows file manager



- Double click on the .exe file





# Eclipse CPP Project Example

- Alternate run method
  - If you run using the .exe file method you may need to:
    - Before your return statement – add the lines

```
cout << flush;  
system("pause");
```

- Without this the program will run so fast and close the window before you can see anything