

Assignment 3

Reading and Exercises

Read page 79-85 of the textbook and the online notes (Lesson 3)

Programming with Words

- a) A C++ program must have at least one function. What is its name?
- b) What is the preprocessor ?
- c) The function proposed in our programming exercise below requires two integer values as input (**parameters**) . The way we have been using (defining) **main**, how many values does it appear to require?

C++ Program

Write a program with two functions: *main* and *remainder*. The *remainder* function will work exactly the same as the `%` operator in C++, that is:

```
cout << remainder(10, 3) ;
```

will print 1, the same as the result of `10%3`.

The limitation is that you cannot use the `%` operator to implement function *remainder*. You will have to write the code from the scratch so that your function *remainder* produces the same results as `%`.

Your function *main* should just ask the user to input two numbers, and then it will call *remainder* to calculate and print the result of the remainder of the first number divided by the second.