

CS118 Homework Exercises

Programmer-defined Functions 1

For each of the following exercises, create a test program to test the function. Give the file a name that **includes the exercise number** (e.g. `program_01.py`). Create these programs and prepare the described functions. Submit all files together in a single ZIP file – do NOT create separate ZIP files for each exercise.

1. Write a Python function named `Say_Hello_01()` that takes no arguments, returns no values, and produces the words “Hello, World” in the shell. Call this function from a test program.
2. Make a copy of the `Say_Hello_01()` function from #1 and name it `Say_Hello_02()`. Call this function from a test program.
3. Write a Python function named `Hello_Name_03()` that takes a single string argument. Remember that values sent into a function are *arguments*, and they are received by the function in the variables called *parameters*. The parameter for `Hello_Name()` should be called `name`. Return nothing from this function, but have it produce the output “Hello, World from “ followed by the string in the parameter. Call this function from a test program – the *argument* for the function call can be gotten from the user or hardcoded in the program.
4. Write a Python function named `greater_04()` that takes two arguments (both numeric) and returns the greater of the two values. Call this function from a test program. Be sure the test program tests the function by calling multiple times with differing arguments and displaying the resulting return values.
5. Write a Python function named `greatest_05()` that takes a single argument that is a numeric list and returns the greatest value in the list - do not use any built-in functions which will determine the greatest value directly. Call this function from a test program. Be sure the test program tests the function by calling multiple times with differing arguments and displaying the resulting return values.
6. Write a Python function named `max_min_06()` that takes a single argument that is a numeric list and returns the greatest value and least value in the list - do not use any built-in functions which will determine these values directly. Call this function from a test program. Be sure the test program tests the function by calling multiple times with differing arguments and displaying the resulting return values.