ENGG1330 Computer Programming

2018-19 2nd Semester

Tutorial 1

Deadline: 31/1 23:55

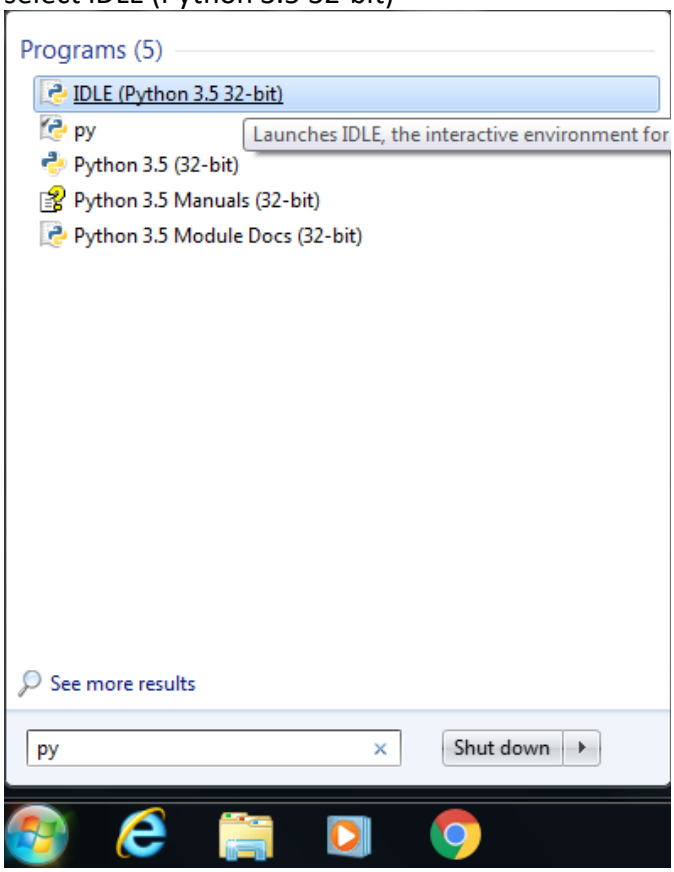
Aims and Objective:

1. Write and execute program on Python IDLE
2. Submit and Evaluation program using VPL
3. Write a simple with input and output

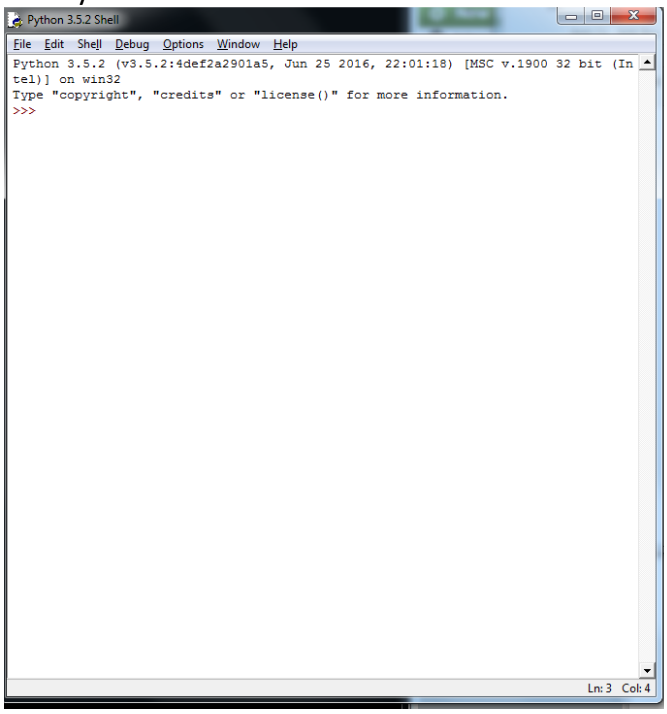
1. Write and execute program on Python IDLE (Integrated Development and Learning Environment) @Tutorial room

Coding in Interactive Mode

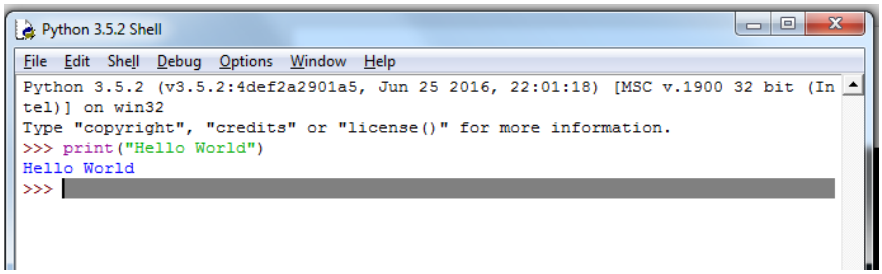
a. Click the Start button on the bottom left of Window, type "Python" and select IDLE (Python 3.5 32-bit)



b. The Python IDLE should be launched in Interactive Mode

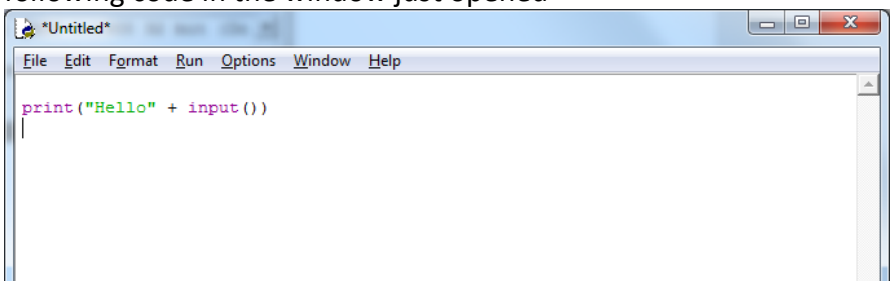


c. Type `print("Hello World")` and you should see an output "Hello World"

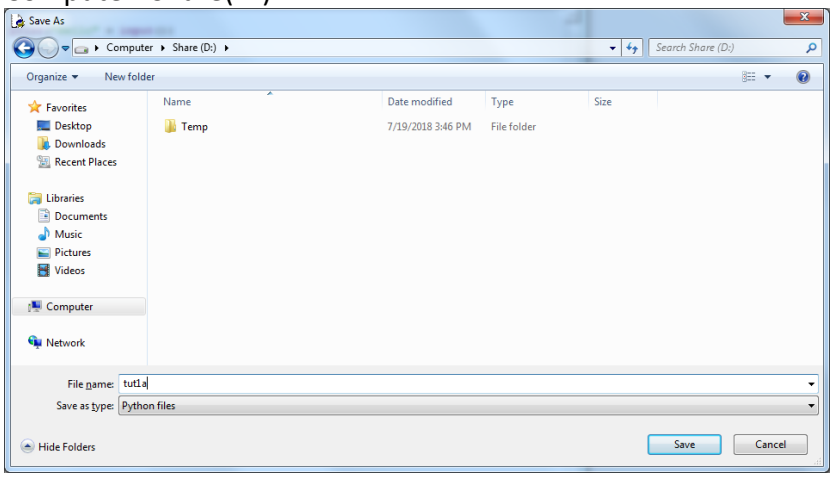


Coding in Script Mode

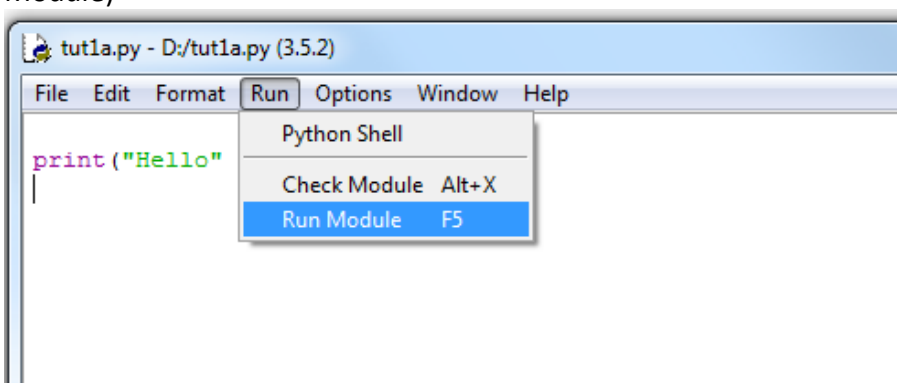
a. Now we write code in Script mode. Select File > New File and type the following code in the window just opened



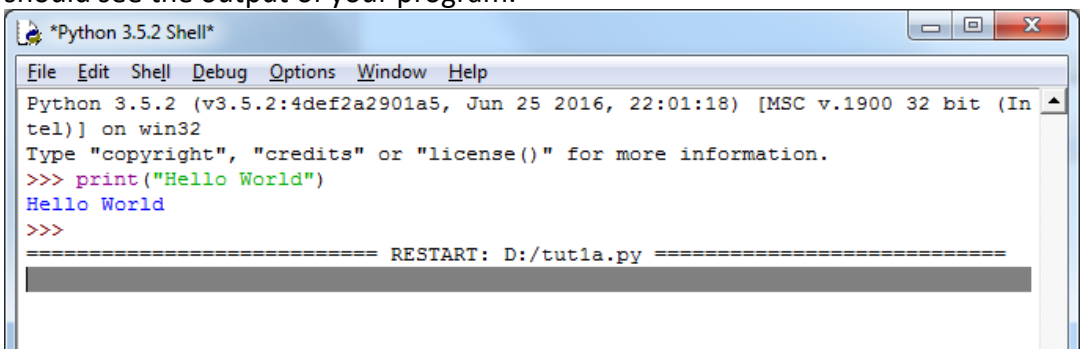
b. Save the file (File>Save) to a memory stick or local drive, e.g. Computer>Share(D:)

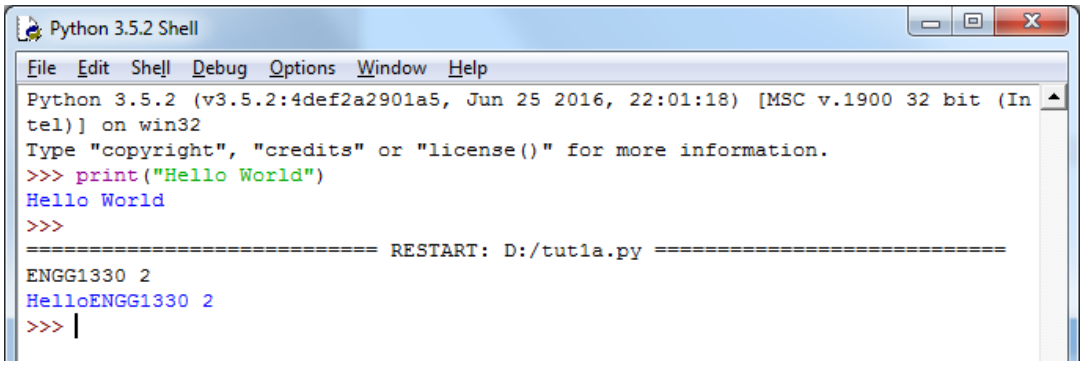


c. After save the file, you should able to run your code by selecting (Run>Run Module)

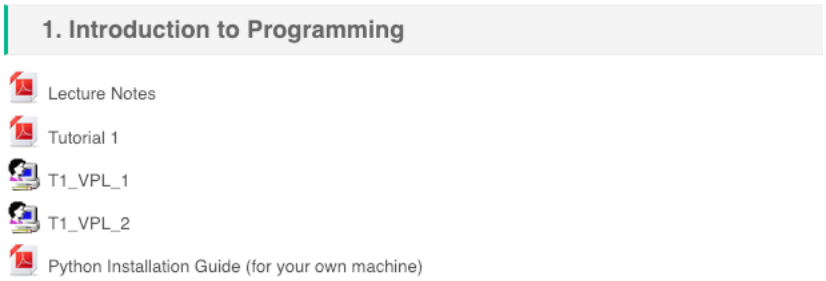


d. The console will stop and wait for your input, enter "ENGG1330 2" and you should see the output of your program.

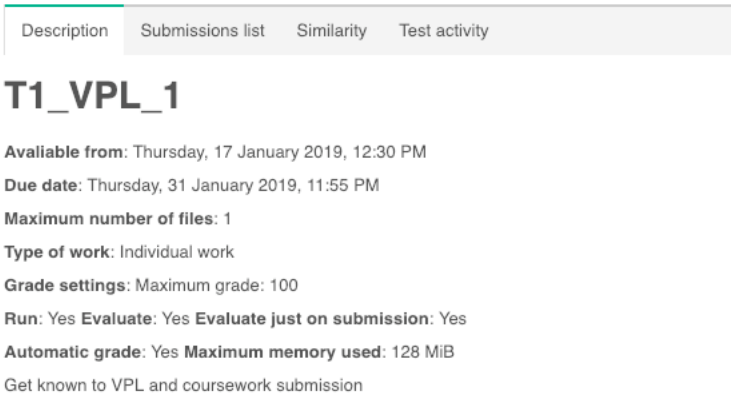




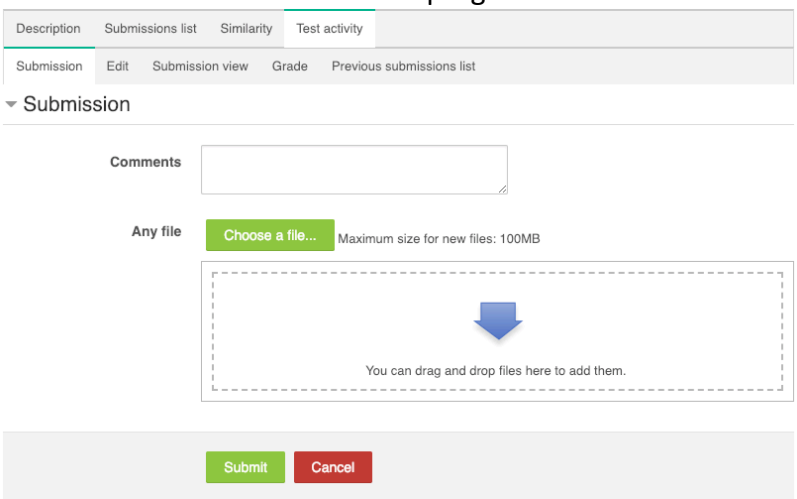
2. Submit your file to VPL
   a. Login Moodle and select _ENGG1330_2B_2018. Under the Introduction, click T1_VPL_1



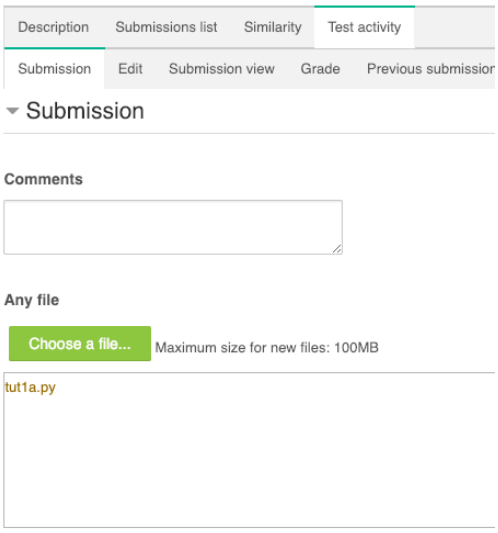
   b. Click "Test activity"



   c. Click "Submission" to submit the program file.

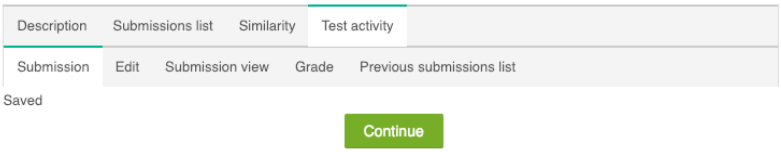


d. Click "Choose a file…" to select your program or drag your program to the file box

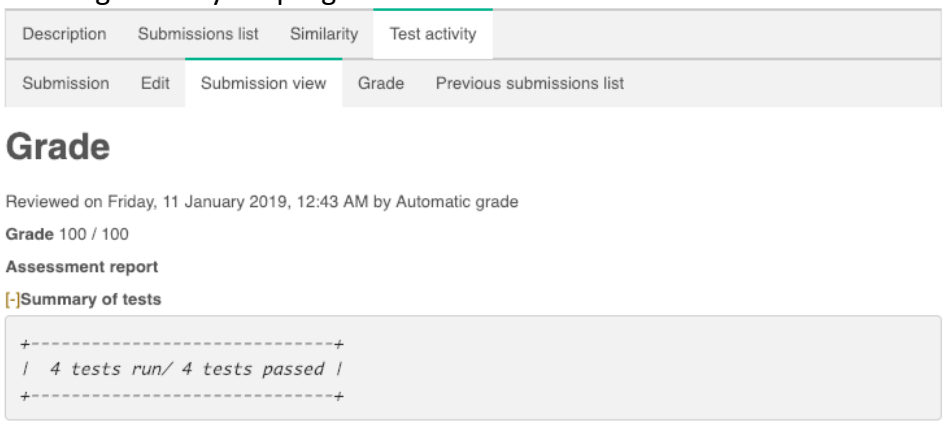


The file name must not contain any space and must be ended with ".py"

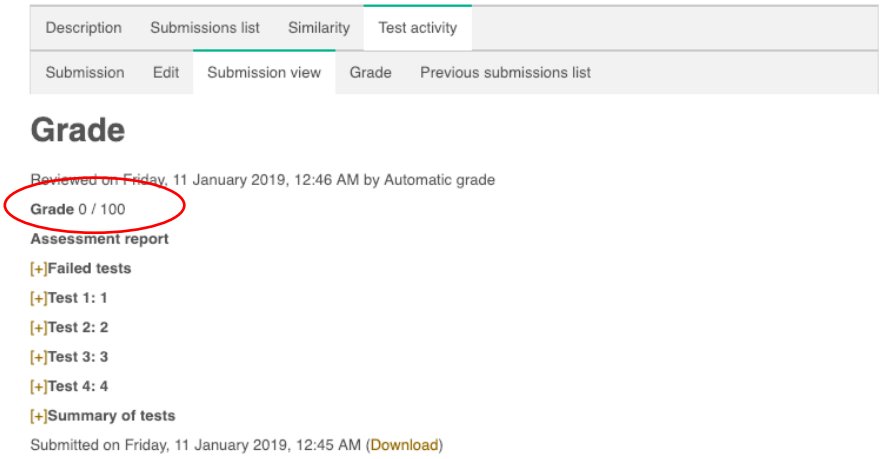
e. Click "Submit" when the file is correct



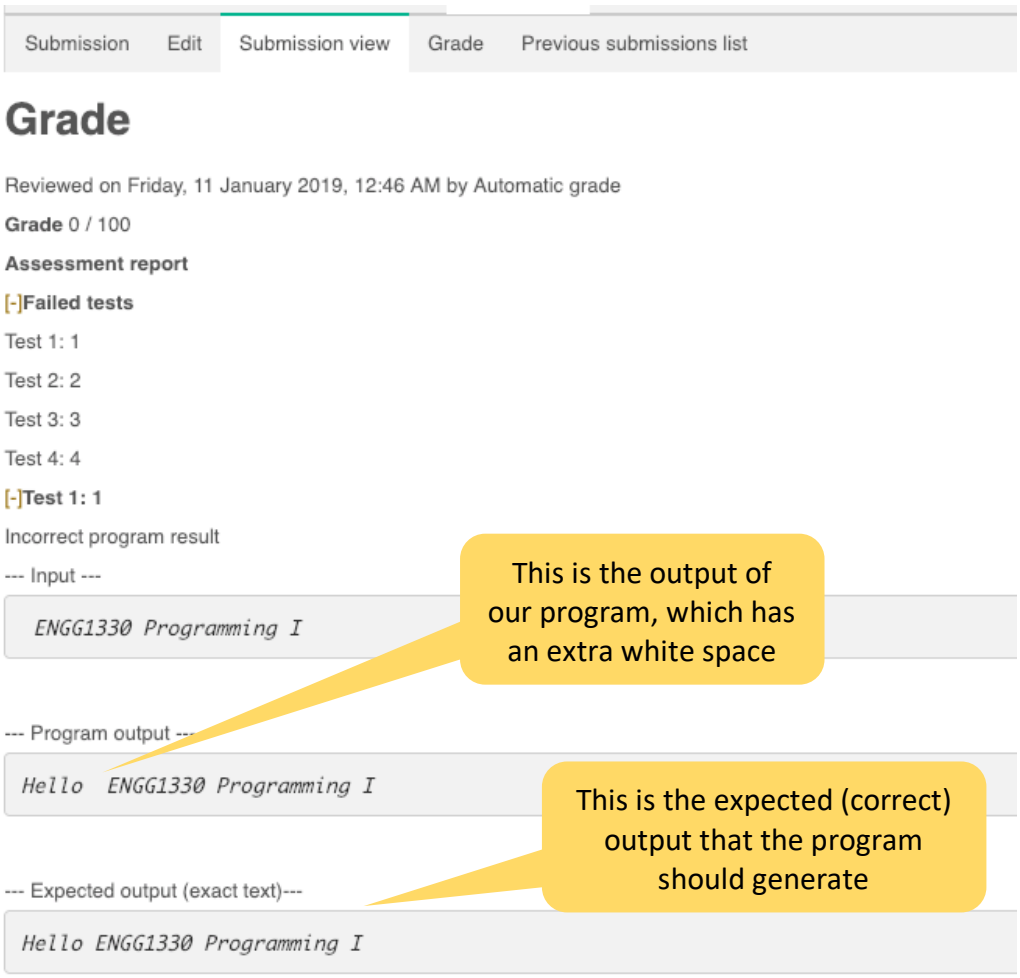
f. Click "Continue" and your code should be evaluated the system. You should see the grade of your program



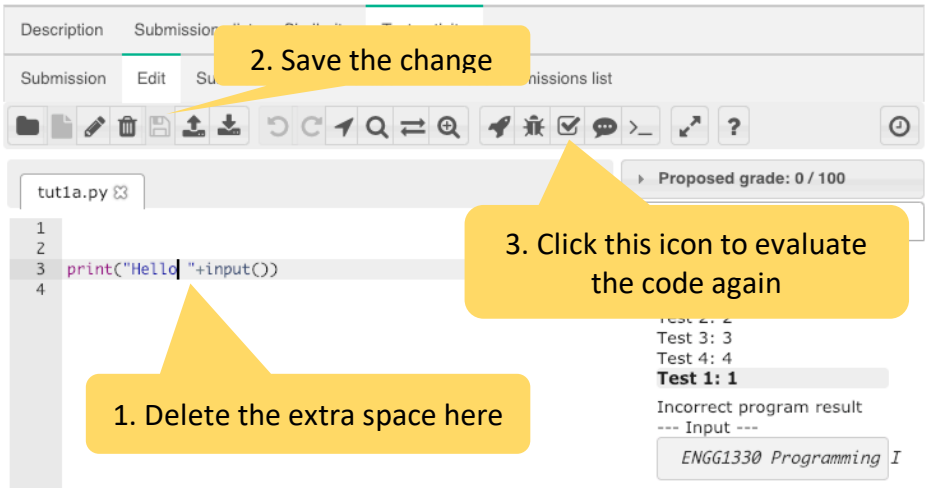
g. In case the grade is not 100, it means the program's output is incorrect.



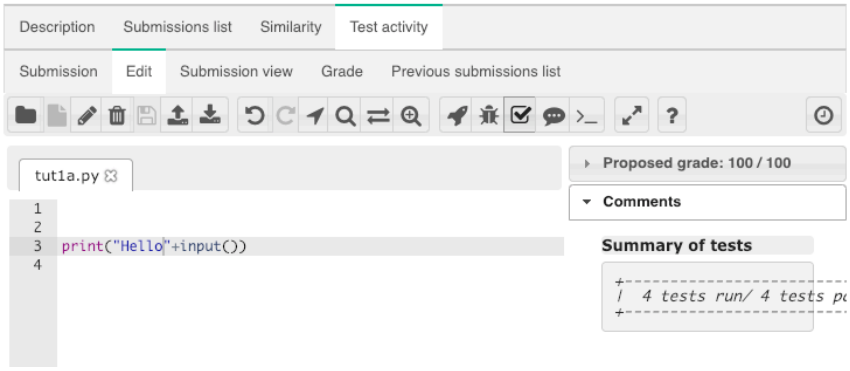
h. Expanse the "Failed tests" and "Text X:X" to find out the problem of program output.



i. Select Edit to edit your code (or you may revise the program in IDLE and resubmit to Moodle)



j. This time the proposed grade should be 100 with all the test passed.



3. **Currency Converter (Static Exchange Rate)**

   Write a program that converts HK dollar to Japanese yen, you may assume the exchange rate is 1 HK dollar equal to 14.2 Japanese yen

   The program read a floating-point number from user input and out the amount in Japanese yen

   Sample Input / output

Case	Input	Output
1	25	355.0
2	300	4260.0
3	56.8	806.56

   Submission

   Submit your program to VPL_1b and test your program

In this tutorial, we have write programs in Python IDLE and submit them to Moodle for testing and grading. It is very important because all the programming assignments in this course will be graded by VPL. Wrong submission will cause zero mark in the corresponding coursework. We hope you enjoy the learning experience of this tutorial.

-Joe