

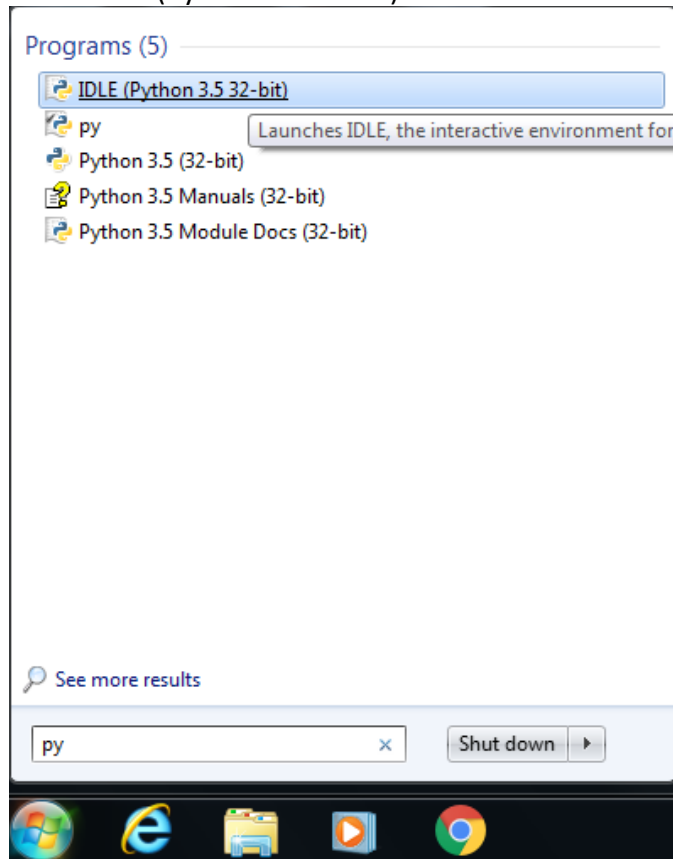
Aims and Objective:

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

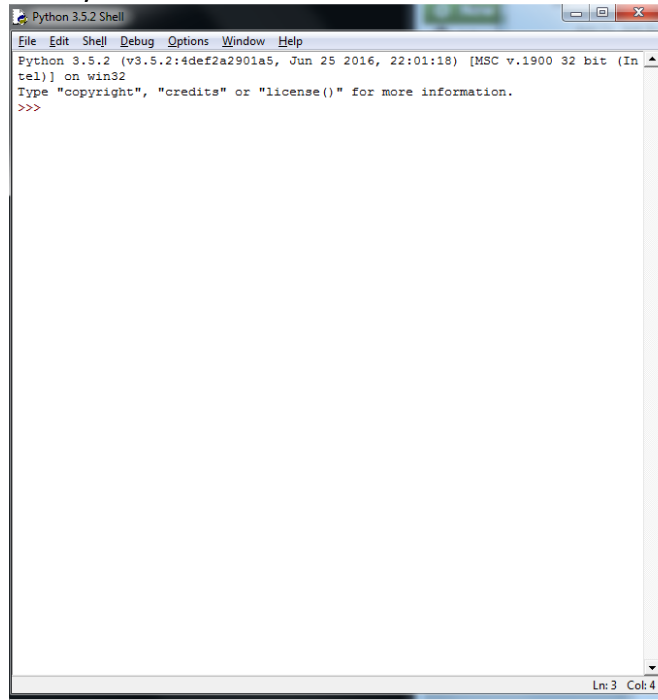
1. Write and execute program on Python IDLE (Integrated Development and Learning Environment) @Tutorial room

Coding in Interactive Mode

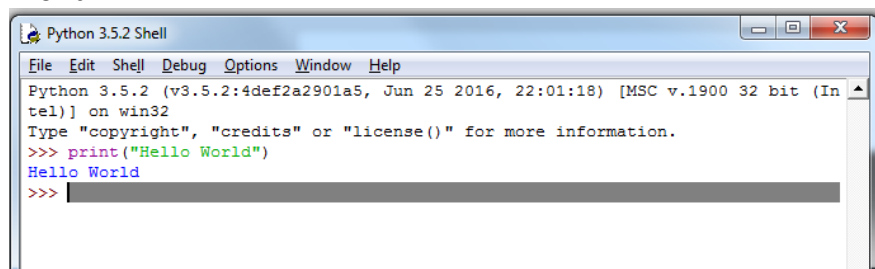
- a. Click the Start button on the bottom left of Window, type "Python" and select IDLE (Python 3.5 32-bit)



- b. The Python IDLE should be launched in Interactive Mode

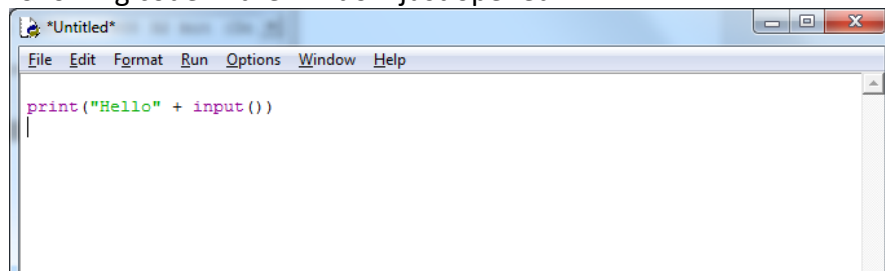


- c. Type `print("Hello World")` and you should see an output "Hello World"

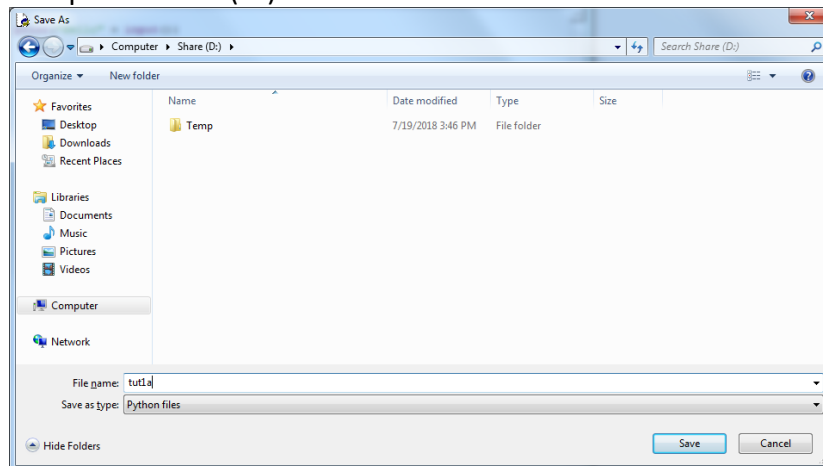


Coding in Script Mode

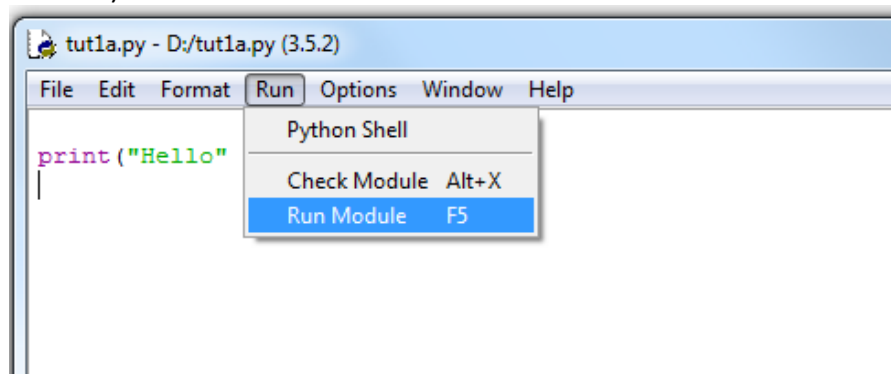
- a. Now we write code in Script mode. Select File > New File and type the following code in the window just opened



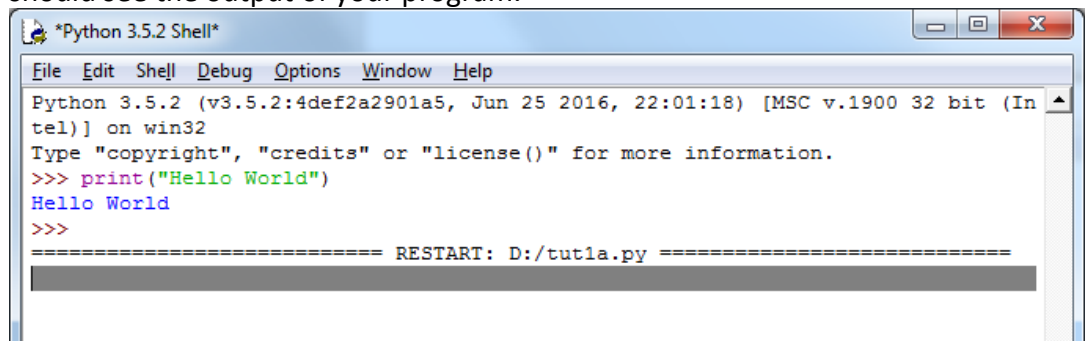
- b. Save the file (File>Save) to a memory stick or local drive, e.g. Computer>Share(D:)



- c. After save the file, you should be 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.



```

Python 3.5.2 Shell
File Edit Shell Debug Options Window Help
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 25 2016, 22:01:18) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> print("Hello World")
Hello World
>>>
===== RESTART: D:/tut1a.py =====
ENGG1330 2
HelloENGG1330 2
>>> |

```

2. Submit your file to VPL

- a. Login Moodle and select ENGG1330_2B_2018. Under the Introduction, click T1_VPL_1

1. Introduction to Programming

- Lecture Notes
- Tutorial 1
- T1_VPL_1
- T1_VPL_2
- Python Installation Guide (for your own machine)

- b. Click "Test activity"

T1_VPL_1

Available from: Thursday, 17 January 2019, 12:30 PM
Due date: Thursday, 31 January 2019, 11:55 PM
Maximum number of files: 1
Type of work: Individual work
Grade settings: Maximum grade: 100
Run: Yes **Evaluate:** Yes **Evaluate just on submission:** Yes
Automatic grade: Yes **Maximum memory used:** 128 MiB
 Get known to VPL and coursework submission

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

Submission

Comments:

Any file: Maximum size for new files: 100MB

You can drag and drop files here to add them.

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

Description	Submissions list	Similarity	Test activity	
Submission	Edit	Submission view	Grade	Previous submission

▼ Submission

Comments

Any file

Choose a file... Maximum size for new files: 100MB

tut1a.py

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

- e. Click "Submit" when the file is correct

Description	Submissions list	Similarity	Test activity	
Submission	Edit	Submission view	Grade	Previous submissions list

Saved

Continue

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

Description	Submissions list	Similarity	Test activity	
Submission	Edit	Submission view	Grade	Previous submissions list

Grade

Reviewed on Friday, 11 January 2019, 12:43 AM by Automatic grade

Grade 100 / 100

Assessment report

[-]Summary of tests

+-----+
| 4 tests run/ 4 tests passed |
+-----+

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

Description	Submissions list	Similarity	Test activity	
Submission	Edit	Submission view	Grade	Previous submissions list

Grade

Reviewed on Friday, 11 January 2019, 12:46 AM by Automatic grade

Grade 0 / 100

Assessment report

[+]Failed tests

[+]Test 1: 1

[+]Test 2: 2

[+]Test 3: 3

[+]Test 4: 4

[+]Summary of tests

Submitted on Friday, 11 January 2019, 12:45 AM ([Download](#))

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

Submission	Edit	Submission view	Grade	Previous submissions list
------------	------	-----------------	-------	---------------------------

Grade

Reviewed on Friday, 11 January 2019, 12:46 AM by Automatic grade

Grade 0 / 100

Assessment report

[+]Failed tests

Test 1: 1

Test 2: 2

Test 3: 3

Test 4: 4

[+]Test 1: 1

Incorrect program result

--- Input ---

```
ENG1330 Programming I
```

This is the output of our program, which has an extra white space

--- Program output ---

```
Hello ENG1330 Programming I
```

This is the expected (correct) output that the program should generate

--- Expected output (exact text)---

```
Hello ENG1330 Programming I
```

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

The screenshot shows the Moodle submission editor for a file named `tut1a.py`. The code in the editor is:

```
1  
2  
3 print("Hello "+input())  
4
```

Three yellow callout boxes provide instructions:

- Box 1 (pointing to the space before `input()`): "1. Delete the extra space here"
- Box 2 (pointing to the save icon): "2. Save the change"
- Box 3 (pointing to the checkmark icon): "3. Click this icon to evaluate the code again"

On the right side, the "Proposed grade" is 0 / 100. Below it, a "Summary of tests" section shows:

- Test 2: 2
- Test 3: 3
- Test 4: 4
- Test 1: 1**

Below the tests, it says "Incorrect program result" and shows the input "ENG1330 Programming I".

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

The screenshot shows the Moodle submission editor for the same file `tut1a.py`. The code is the same as in the previous screenshot:

```
1  
2  
3 print("Hello "+input())  
4
```

On the right side, the "Proposed grade" is now 100 / 100. Below it, the "Summary of tests" section shows:

- 4 tests run/ 4 tests 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