

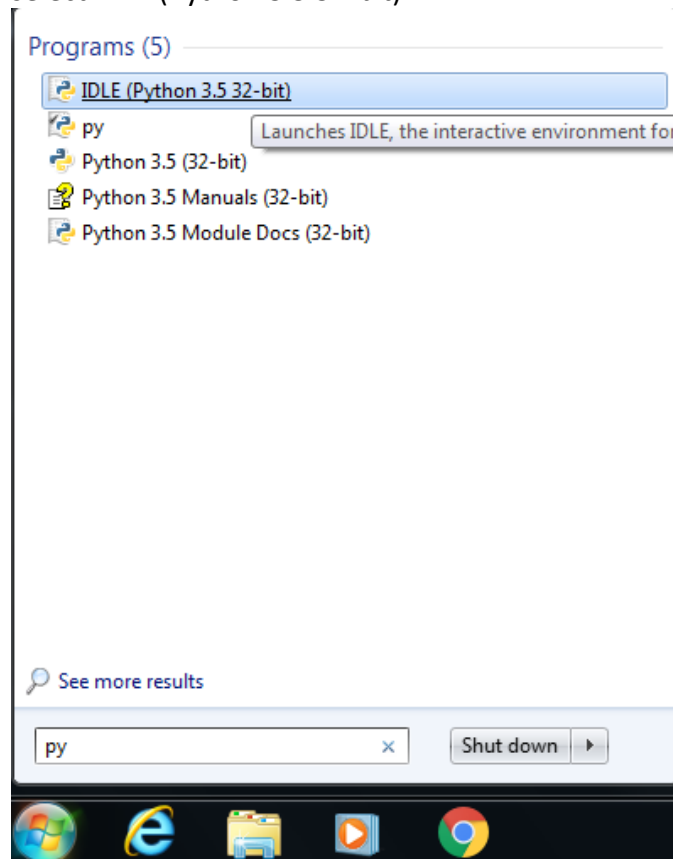
Aims and Objective:

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

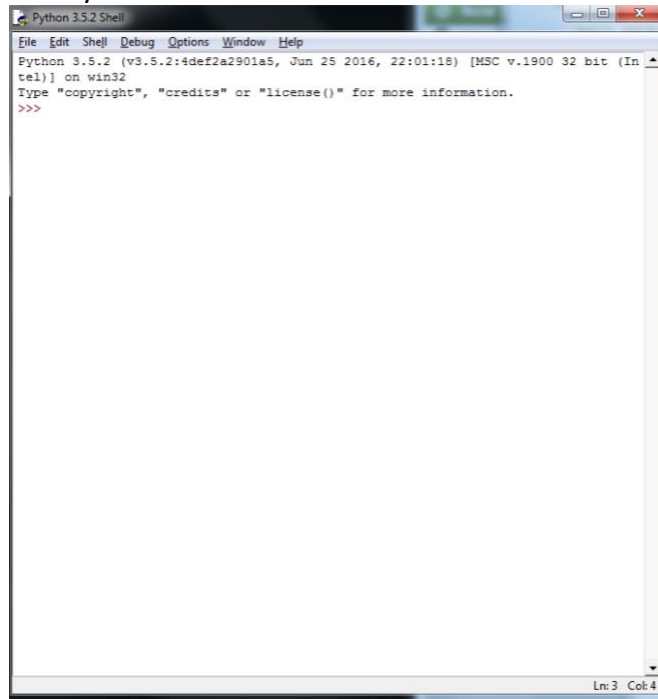
1. Write and execute program on Python IDLE (Integrated Development and Learning Environment) @Tutorial room

Coding in Interactive Mode

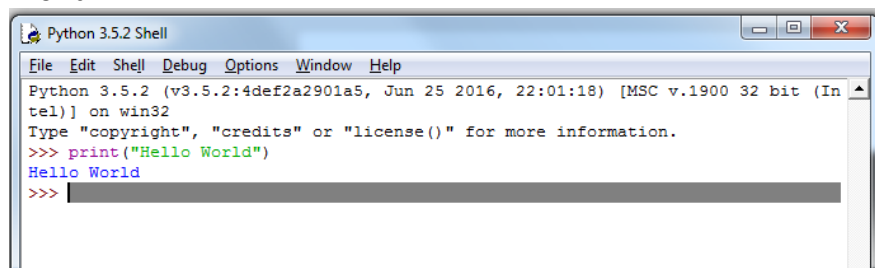
- a. Click the Start button on the bottom left of Window, type "Python" and select IDLE (Python 3.5 32-bit)



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

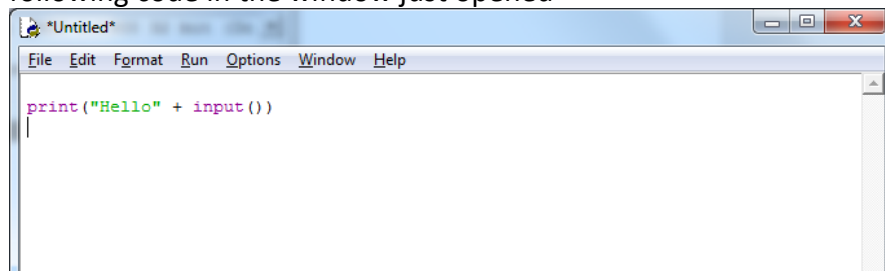


- c. Type `print("Hello World")` and you should see an output "Hello World"

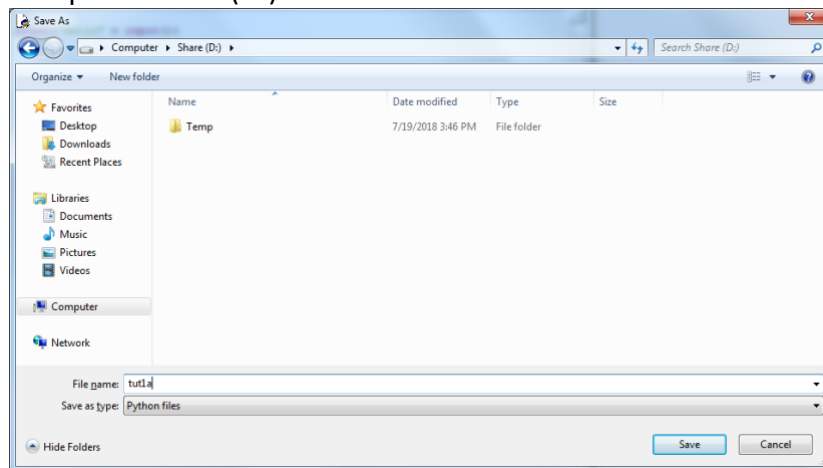


Coding in Script Mode

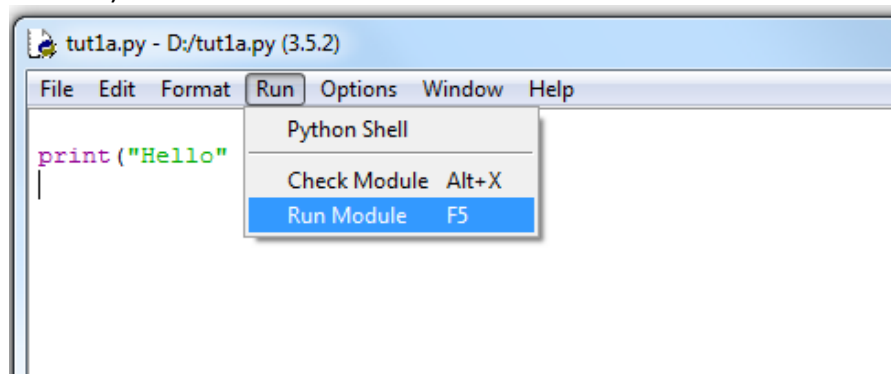
- a. Now we write code in Script mode. Select File > New File and type the following code in the window just opened



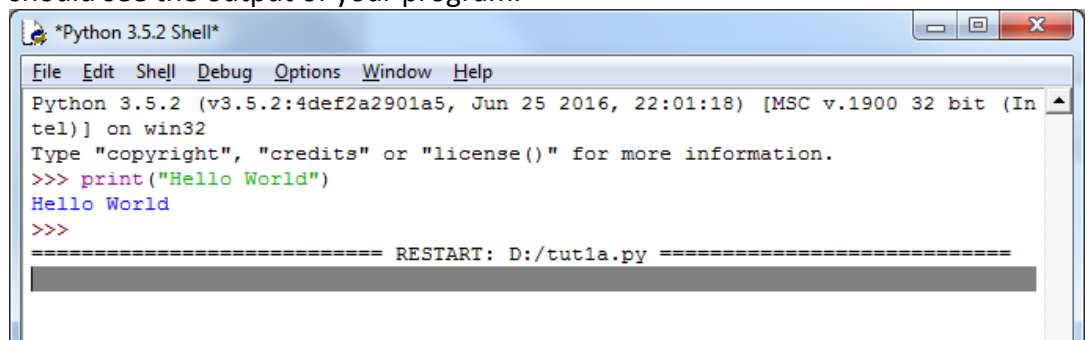
- b. Save the file (File>Save) to a memory stick or local drive, e.g. Computer>Share(D:)



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



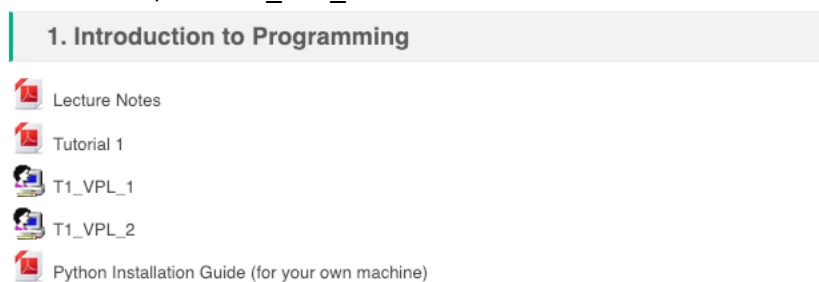
- d. The console will stop and wait for your input, enter "ENGG1330 2" and you should see the output of your program.



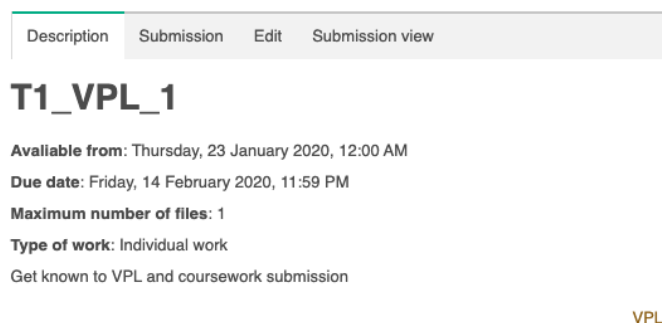
```
Python 3.5.2 Shell
File Edit Shell Debug Options Window Help
Python 3.5.2 (v3.5.2:4def2a2901a5, Jun 25 2016, 22:01:18) [MSC v.1900 32 bit (Intel)] on win32
Type "copyright", "credits" or "license()" for more information.
>>> print("Hello World")
Hello World
>>>
===== RESTART: D:/tut1a.py =====
ENGG1330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

2. Submit your file to VPL

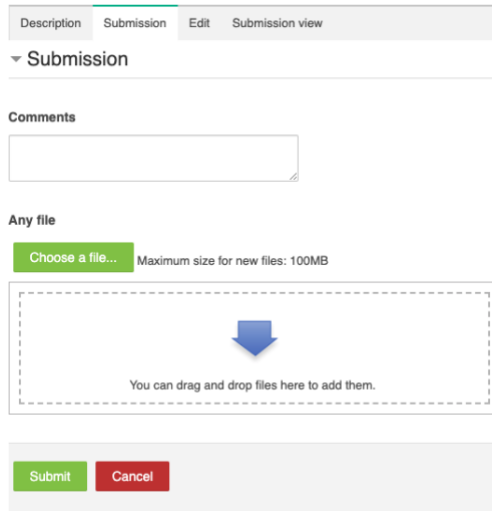
- a. Login HKU Moodle and select this course (i.e. _ENGG1330_xxx). Under the Introduction, click T1_VPL_1



- b. Click "Submission"



- 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

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 or special characters (e.g. (,*,) 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	Submission	Edit	Submission view	
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Grade

Reviewed on Saturday, 8 February 2020, 7:28 PM by Automatic grade

grade: 100.00 / 100.00

Assessment report[-]

[-]Summary of tests

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

Submitted on Saturday, 8 February 2020, 7:28 PM (Download)

tut1a.py

1 print("Hello"+input())

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

Description	Submission	Edit	Submission view
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Grade

Reviewed on Saturday, 8 February 2020, 7:34 PM by Automatic grade

grade: 0.00 / 100.00

Assessment report[-]

[+]Failed tests

[+]Test 1: 1

[+]Test 2: 2

[+]Test 3: 3

[+]Test 4: 4

[+]Summary of tests

Submitted on Saturday, 8 February 2020, 7:34 PM ([Download](#))

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

Description	Submission	Edit	Submission view
-------------	------------	------	-----------------

Grade

Reviewed on Saturday, 8 February 2020, 7:34 PM by Automatic grade

grade: 0.00 / 100.00

Assessment report[-]

[-]Failed tests

Test 1: 1

Test 2: 2

Test 3: 3

Test 4: 4

[-]Test 1: 1

Incorrect program output

--- Input ---

```
ENG1330 Programming I
```

--- Program output ---

```
Hello  ENG1330 Programming I
```

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

```
Hello ENG1330 Programming I
```

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

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

[+]Test 2: 2

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

2. Save the change

3. Click this icon to evaluate the code again

1. Delete the extra space here

★ tut1a.py

```
1 print("Hello "+input())
```

Proposed grade: 0 / 100

Comments

Failed tests

Test 1: 1
Test 2: 2
Test 3: 3
Test 4: 4
Test 1: 1
Incorrect program output
--- Input ---

ENG1330 Programming

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

Description Submission Edit Submission view

+ [save] [re-run] [comment] [run] [help]

tut1a.py

```
1 print("Hello"+input())
```

Proposed grade: 100 / 100

Comments

Summary of tests

```
+-----+  
/ 4 tests run/ 4 tes  
+-----+
```

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