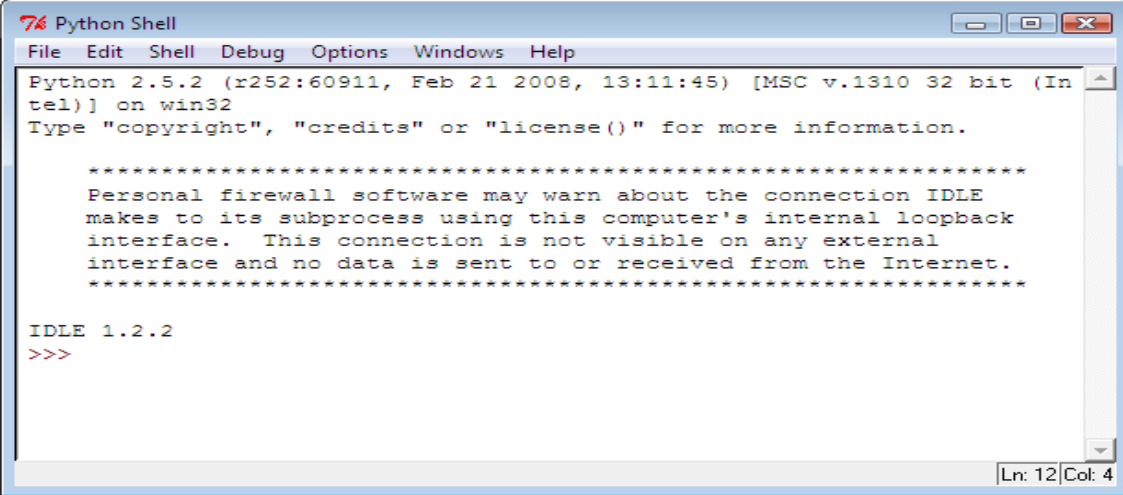# University of Mauritius
Faculty of Engineering
Department of Computer Science & Engg.

CSE 1003 – Computer Programming
CSE 1002Y- Programming Methodology
2010/2011- Semester 1

Labsheet 1- Introduction to Python

Getting Started with Python

To start Python in the Interpreted mode, click on Start _ Programs _ Python 2.5 _ IDLE (Python GUI).
The following Python Shell appears with the Python prompt waiting for you to give it a command:

Type the following commands:

    a. print "Hello, World"
    b. print 2 + 3
    c. print "2 + 3 =", 2 + 3
    d. print "Hi! How are you?"
    print "I am now in the Computer Lab at UoM."
    e. print "Hi! How are\n you?"
    print "I am now \t in the Computer Lab at UoM."
    f. x = 2
    print x
    g. x = 2
    y = 3
    print x + y

Note: Press the Enter key after each command to view their result.

Exiting Python Shell

To exit the Python Shell, type **exit()** at the Python prompt and press Enter.

Question 1
Use the Python Interpreter to display the following:
Hello Sam! How are you?

Question 2
Use the Python Interpreter to find each of the following:
   a. The sum of 24, 55, 28 and 42
   b. The difference between 456 and 129
   c. The product of 47 and 25
   d. The average of 25, 32, 35, 56, and 78

Question 3

Use the Python Editor to type in the required code statements for question 2 in a file. You should proceed as follows:

- From the menu, choose **File** … **New Window**.
- Type in the required statements.
- Choose **File … Save**
- For the file name, give a name of your choice to the file. **The extension should be .py**
- Having saved the file, now run it as follows: From the menu, choose **Run** .. **Run Module**.

If the statements are all correctly written, the program will yield the required outputs. If you have errors, you have to correct them and try to **Run** again.

Henceforth, all your programs should be typed in a file, with .py extension, and saved.

Question 4

Write a program that requests the user to input the radius of a circle and it calculates and displays the area.

Question 5

Write a program that asks the user his name, score in CSE1010, CSE1003 and MATH1111 and output the user's name with his average score.

> **Sample inputs:**
> > **Please Enter your name:** John Smith
> > **Enter your score in CSE1010:** 65
> > **…**
> > **Sample outputs:**
> > **Name: John Smith**
> > **Score in CSE1010: 65**
> > **…**
> > **AVERAGE SCORE: 60**

Question 6

Write a program that asks a person for his/her name and then, on the next line, asks the name of the father. The program must then display the father's name followed by child name in the following format:

Tom is the father of **Anna**. (Assuming Anna and Tom are the names of the person and the father respectively).