Session 1: Assignments

1. Read chapter 2 of the following book:

http://www.ict.ru.ac.za/Resources/cspw/thinkcspy3/thinkcspy3.pdf

Nếu bạn không đọc được tiếng anh, mặc dù không khuyến khích, bạn có thể đọc tài liệu sau để thay thế:

http://phocode.com/python/python-cac-kieu-du-lieu-co-ban/

and answer the following questions:

- How to check a variable's type?
- In what cases, you will get *SyntaxError* from the compiler telling you that some of your variables have **invalid names**? Can you give 3 different examples of **invalid names**?
- 2. Write a program that calculates the **area** of a **circle**. The circle radius is entered by users

Expected screen output:

Radius? 10	Radius? 10
314.0	Area = 314.0
# This one is fine	# This one is a little bit better

3. Write a program that converts **Celsius** (°C) into **Fahrenheit** (°F) Expected screen output:

Enter the temperature in Celsius? 10 50.0	Enter the temperature in Celsius? 10 10 (C) = 50.0 (F)
# This one is fine	# This one is a little bit better

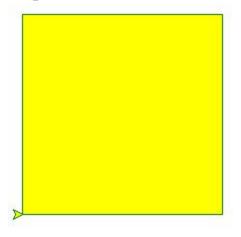


Turtle exercise

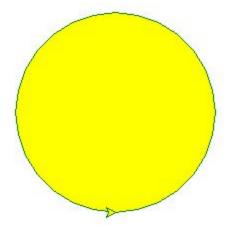
Use Python Turtle to draw the following shapes

Hint: google "python turtle colors fill"

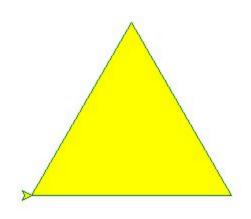
1. A square



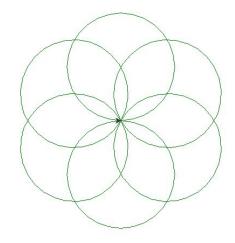
3. A circle (Hint: Google "Python Turtle Circle")



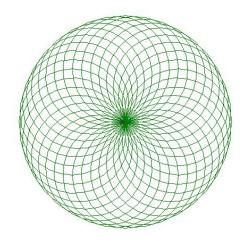
2. An equilateral triangle



4. Multi-circles



Or even better:





Tools preparation

Sign up a https://github.com account