Columbia College
Vancouver, Canada

Introduction to Computer Science and Programming 1
CSCI120

Chapter2: Variables, Data types, String, Input/Output

Chapter2-Lab

# of Students in the Group:		
Student 1	*First name, last name*	*Student-ID*
Student 2	*First name, last name*	*Student-ID*
Student 3	*First name, last name*	*Student-ID*
Student 4	*First name, last name*	*Student-ID*

Requirements

- For each of the problem below write a Python program.
- When defining variable names, use proper and meaningful names for the variables.
- Follow Python's convention for naming your variables (camel case)
- Remember Python is sensitive about indentation. Use proper indentation.
- Add comments to your code.
- Write all the python programs in one single file. Separate your answers for each question as following: Example:

##Problem 1
print("Problem1---")
Python code for problem 1

##Problem 2
print("Problem2---")
Python code for problem 2

Problem1

- Write a Python program which asks the user to enter two numbers called X and Y and calculates the following:
    1. $F(X,Y) = X*Y + Y^2 + abs(X-Y)$ where ^ is the power operation
    2. Find A such that the following equation holds: $X^2+Y^3-A = 5$

Problem2

- Write a Python program which asks the user to enter four numbers called X1, X2, X3 and X4 and calculates the following:
    o Maximum (X1, X2, X3, X4) – Minimum (X1, X2, X3, X4) + $X1^{X2}$ + abs(X3-X4)

Problem3

- Write a Python program which asks the user to enter a positive number called N, and print the letter "A" for N times.

Problem4

- Write a Python program that prompts (ask) the user to enter his/her first-name and last-name. The Python program, the concatenate the first-name to last-name and print the following message:

    o Hi [first-name last-name], I hope you are doing well!

Problem5

- Write a Python program which asks the user to enter three number and finds the absolute distance between the biggest and smallest entered numbers.

Good Luck ☺