



Columbia College  
Vancouver, Canada

**Introduction to Computer Science and Programming 1**  
**CSCI120**

Chapter2-Assignment

**Note:** This document has been designed and developed as part of an initiative for creating an OER (Open Education Resource) package for the course CSCI 120 at Columbia College.

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## 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 questions as following: Example:

If it is a group assignment, please add the information here

# Of Students in the Group:		
Student 1	<i>First name, last name</i>	<i>Student-ID</i>
Student 2	<i>First name, last name</i>	<i>Student-ID</i>
Student 3	<i>First name, last name</i>	<i>Student-ID</i>
Student 4	<i>First name, last name</i>	<i>Student-ID</i>



##Problem 1

```
print("Problem1-----")
```

Python code for problem 1

##Problem 2

```
print("Problem2-----")
```

Python code for problem 2

## Problem1

- Write a Python code to calculate the following statements and print the results:
  - o  $5+10-15$
  - o 5 to the power of 5
  - o  $\text{abs}(-5)*6+4*3$
  - o  $15/4//5$
- Example: Python program for  $6+3-9$

```
a = 6+3-9
```

```
print("the result of 6+3+-9 is: %d" %(a))
```

## Problem2

- Write a Python program for the following questions:
  - o Calculates and prints the maximum of the numbers: 12, -1, 0, 34, 18, 24, 9, 99, 101, -101
  - o Calculates and prints the minimum of the numbers: 12, -1, 0, 34, 18, 24, 9, 99, 101, -101
  - o Rounds the number 12.13456 to 2 decimal digits and prints the result
  - o Rounds the number 12.683212 to 1 decimal digits and prints the result
  - o Calculates the floor division of 40 over 7
  - o Converts the floating point 12.455 to an integer and prints it

## Problem3

- Write a Python program for the following problems:
  - o prints \* for 500 times with no space between the \*
  - o Converts the number 152 to string "152"
  - o Converts the floating point 145.34 to string "145.34"
  - o Converts the string "456" to number 456
  - o Converts your name to lower case and prints it. For instance if your name is "Ali" the program should convert to lowercase and print "ali".



## Problem4

- Write a Python program that prompts (ask) the user to enter his/her name and age. The Python code receives the age from the input (user) and prints the following message: (for example, if the user has entered James and 21)
  - o Hi James, your age is 21 years.

## Problem5

- Write a Python program which asks the user to enter two numbers called number1 and number2 and then prints the number that is bigger. For instance if the user has entered 10 and 15, the program prints the bigger number that 15. (you can use the max function here)

## Problem6

- Write a Python program which prompts(asks) the user to enter three numbers A and B and X and calculates and prints the result of the following math function:
  - o  $A^X + X^B$
  - o ^ means power (i.e.  $2^3 = 2 * 2 * 2 = 8$ ). Instead of ^ use the proper power operator in Python.

**Good Luck ☺**