

## Worksheet #1

### Variables

1. What is the result of the running of these codes? Open a terminal and find out. Try to explain the results.
  - `"Hello" * 5`
  - `int("A")`
  - `str(int("1") + int("3"))`
  - `float(len("Hello!"))`
2. Develop a program that gets the birth year of the user and current year and calculate the user's age.
3. Each character has a code. For example, the code of "m" character is 109. Develop a program that gets a letter and finds the index in the English alphabet. (Hint: use `ord()` and `char()`)
4. Develop a program for an ATM. The program gets the amount of money that user needs and calculates how many coins and bill the machine will give to the user.

For example, if a user needs 1.25\$, he/she will get a 1\$ coin and a 25 cent coin

**Canadian coins:** 5¢, 10¢, 25¢, 50¢, \$1, and \$2

**Canadian bills:** \$5, \$10, \$20, \$50, and \$100

(hint: the input is float you need to convert the value to int first. After that use % operator)

This worksheet is just for practicing. You don't need to submit the answers.

Any questions? Email me! [sepehr.sabour@ucalgary.ca](mailto:sepehr.sabour@ucalgary.ca)