## L02 Participation Assignment – Data Types

### **Background**

Explore using data types and data structures.

### **Procedure**

Run the associated code in pycharm, command line, idle or colab.google. Answer questions and copy/paste or screen shot answers.

1. Run the Python code of the following. Note the use of string formatting and length functions.
   1. The first 3 letters are displayed
   2. The 3 last letters are displayed
   3. Copy/paste your code output below.

Output: Pol...nic

A screenshot of a computer code

Description automatically generated

1. Run the Python code of the following. Note the use of user input casting variables.
   1. What happens if you type “cat” into the input field instead of a number? ValueError: could not convert string to float: 'cat'
   2. Enter 88.99 into the input. Copy/Paste input below

88 dollars 99 cents

* 1. Swap the commented print line at the end of the program with the one above it. The f-string is more concise; is there a change in in the output? No

A screenshot of a computer program

Description automatically generated

1. Run the Python code of the following. Use List methods to manipulate.
   1. What does names.pop do to the list? It deletes the 2nd index in the list (Ann).
   2. Where does the append method place ‘Jorge’? At the end of the list.
   3. What is the final command needed to display a sorted names list? Print
   4. Show the output from this program with sorting: ['Melina', 'Fritz', 'Jorge']

A screenshot of a computer code

Description automatically generated

1. Run the Python code of the following.
   1. Copy and paste the output from running below:

Jenny James

Jennys number is 8675309

Brain has a new number 5551212

A screenshot of a computer code

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