# Python programming exercises

Part 2

### 1. If statement

### 1.1. Word's length

- Create a program that asks user to enter a word
- If word has more than 10 characters print "This ia a long word". If word has 10 characters or less do not print anything
- Modify program to print "This is a short word" if word has 10 or less characters
- Modify program to print:
  - "This is a long word" if word has more than 10 characters
  - "This is a medium word" if word has between 5 and 10 characters
  - "This is a short word" if word has less than 5 characters

### 2. For loop

### 2.1. Sum

- Open double.py file. Inside, you'll find a definition of a list containing numbers.
- Calculate and print sum of all numbers from the list

#### 2.2. Average

- Based on the program above, calculate an average of the numbers from the list (hint: you will need to calculate the length of the list numbers - you can do it using len(numbers))

#### 2.3. Double

- Using the list numbers, create a new list, where each element is doubled (multiplied by 2). Example: [2, 3, 4] becomes [4, 6, 8]

## 3. While loop

#### 3.1. Input words

- Open input words.py file
- Write a program that expects user to write exactly 3 words. If user writes less or more than three words program shall ask user again to write words.

## 4. String

#### 4.1. Find words

- Open find words.py file. Inside, you'll find a list with various words
- Print all words from the list that contain letter 'p'

- Print all words from the list that contain letter 'p' or 'P'
- Print all words from the list that start with letters 'kt'

### 4.2. Find the longest word

- Open longest\_word.py file. Inside, you'll find a list with various words
- Find and print the longest word from the list

### 4.3. Reverse words

- Open reverse\_words.py file. Inside, you'll find a list with various words
- Reverse each word from the list and save these reversed words in a new list.
  Example: ['hello', 'world'] becomes ['olleh', 'dlrow']. Hint:
  search slides for l[::-1] expression