



# Introduction to Python I (Exercises 02)

## Loops

- 1) Write a program that prints the numbers from 1 to 20 (using a for loop)
- 2) Write a program that print numbers 10 to 30 in increments of 2 (10, 12, 14, 16, ....) (using a for loop)
- 3) Write a program that prints numbers from 100 to 85 in decreasing order. (using a for loop)
- 4) Write a program that prompts the user for a number and then prints out a list of all the divisors of that number. A divisor is a number that divides evenly into another number. For example, 13 is a divisor of 26 because 26 / 13 has no remainder. (use a for loop)
- 5) Write a program that prompts for a string and then prints the number of letters in the string (how many letters) and then prints all the letters in the string (one per line) (use a for loop)
- 6) Write a program that prompts for a string and then prints it backwards. There is a shortcut way to this in python y using slicing ( `[::-1]` ), but can you try do it using indexing and a while loop (or a for loop)?
- 7) Write a program that prompts for a string and displays the vowels found in the string as well as how many vowels were found in total (use a for loop)
- 8) Prompt the user for a string and print out whether the string is a palindrome or not. (A palindrome is a string that reads the same forwards and backwards.)
- 9) Write a small menu with 4 items. Print a message letting the user know his selected choice.
  1. Welcome to Python
  2. Python is Fun
  3. This could be a challenge
  4. Exit

Enter your choice (1 – 4):

Every time the users selects a choice (1 to 3) we print a message (like "You chose welcome to Python") and then print the menu again and wait for another choice to be entered. Once the user enters 4, the program ends.