

Sistemas Informáticos (Computer Systems)

Scripting in Python 05. Activities 01



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SCRIPTING IN PYTHON - PART 05

1. PREVIOUS INFORMATION

The objective of this unit is to use functions properly.

2. EXERCISE 01

Write a program that shows multiply tables. It has to use a function `multiply(x)` and it will print multiply table of x.

3. EXERCISE 02

Write a program and related functions that read 3 numbers and tell maximum and minimum. You have to write and use functions `maximum(a,b,c)` and `minimum(a,b,c)`.

4. EXERCISE 03

Write a program that calculates if a number is prime or not. It has to use a function `prime(x)` that return true if x is prime, false if it is not.

Prime definition can be found in https://es.wikipedia.org/wiki/N%C3%BAmero_primo

5. EXERCISE 04

Write a Python function to sum every element from a list. Function should be similar to `sumatodo(lista)`.

6. EXERCISE 05

Write a Python function that checks whether a passed string is palindrome or not. Function should be similar to `palindrome(word)`

Note: A palindrome is a word, phrase, or sequence that reads the same backward as forward, e.g., *madam*.

7. EXERCISE 06

Create a program that asks infinitely (until "END" is written) for the name of a folder. Before the folder is created, the name has to be preprocessed by a function. This function adds a "_SI" suffix and a two-digit numerical prefix starting with 00 are added to it

Example:

```
Directory name: Task
Creating directory: 00_Task_SI
Directory name: Draw
Creating directory: 01_Draw_SI
Directory name: END
```

8. EXERCISE 07

Create a program that, from a number N and a name S, creates a tree of N folders with the name S. Each folder must be created with a function that creates a single folder.

Example:

```
Tree depth: 3
Directory name: Task
Creating directory: Task
Creating directory: Task/Task
Creating directory: Task/Task/Task
```