

PYTHON - PART 5 - ACTIVITIES

Computer systems
CFGS DAW

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Nomenclatura

A lo largo de este tema se utilizarán distintos símbolos para distinguir elementos importantes dentro del contenido. Estos símbolos son:

🔗 Actividad opcional. Normalmente hace referencia a un contenido que se ha comentado en la documentación por encima o que no se ha hecho, pero es interesante que el alumno investigue y practique.

👁 Atención. Hace referencia a un tipo de actividad donde los alumnos suelen cometer equivocaciones.

💡 Pista. Información adicional que ayuda a la resolución del ejercicio.

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1. PREVIOUS INFORMATION

The objective of this unit is to use functions properly.

2. ACTIVITIES

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

(2) 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)`.

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

(4) Write a Python function to sum every element from a list `sumatodo(lista)`.


(5) Write a Python function that checks whether a passed string is palindrome or not `palindrome(word)`

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

(6) 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
```

(7)  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
```