

Sistemas Informáticos (Computer Systems)

# Unit 12. Activities 02

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## UNIT 12. ACTIVITIES 02

Use forums to ask questions or help your classmates :)

### 1. EXERCISE 01

Create a script that asks a number and checks if that number is prime or not. You can remember prime definition here [https://en.wikipedia.org/wiki/Prime\\_number](https://en.wikipedia.org/wiki/Prime_number)

### 2. EXERCISE 03

Create a script that asks a number and calculates its factorial. Definition can be found here <https://en.wikipedia.org/wiki/Factorial>

### 3. EXERCISE 03

Create a script that shows the number of users currently logged in the system.

**Tip:** “w” or “who” command and their parameters could be useful to do this script.

### 4. EXERCISE 04

Create a script that asks a username and shows its home directory. That information should be checked using “/etc/passwd” file.

### 5. EXERCISE 05

We have a file with two columns (name and country) separated by : like

```
Pedro:Spain  
Juan:Spain  
Mark:Holland  
Vladimir:Russia  
Terry:USA
```

We have to create a program that shows only country names. They should be shown ordered descendant by its country name.

If a country appears more than one time, it should be shown only one time.

**Tip:** “sort” command and their parameters could be useful to do this script.