# Homework M7: Bash Scripts and Automation

For a successful completion of the tasks, it is enough use just one machine. Perhaps, a new one.

Let’s assume that the following list of tasks will be performed on **a new** virtual machine:

1. Create a script named **user-data.sh** that when started will ask the user for (without the a.,b.,c.):
   1. First name
   2. Last name
   3. Place of birth

Then it will append the collected data to a file **/tmp/user-data.dat**. For example, if the user input is (without the a.,b.,c.):

1. John
2. Smith
3. London

The script will store **John;Smith;London** in the file.

1. Execute the script several times (**3 to 5**) with **different** **answers** each time
2. Create a script named **show-data.sh** that when started with a parameter **a file name** (the one from the previous exercise) will display the information from it in the following format (without the a.):
   1. Row #n: First;Last;Place where n is the record number

For example (without the a.,b.,c.):

1. Row #1: John;Smith;London
2. Row #2: Jane;Hudson;Manchester
3. …

If executed **without** parameters or with **incorrect** number of parameters to **display** help **message** and **quit**.

1. Create a script named **archiver.sh** that will accept two parameters on the command line (without the a.,b.):
   1. Folder to archive
   2. Name (and path) of the resulting archive

When **executed** with the **two** **parameters** to create a **tar+gz** archive. If executed with **incorrect** **number** of parameters or their **values** are **incorrect** (parameters should follow the rules):

1. First parameter should be always an existing folder
2. Second parameter should be non-existing file

To display **help message** and to **exit**.

## Proof

After you are done with the tasks, you can check how well you did them

In a terminal session execute one of the following commands (depending on which executable you have)

* Option 1 (**wget** installed, usually for **Debian**-based distributions)

**wget -q https://courses.zahariev.pro/m7.sh -O - | sudo bash**

* Option 2 (**curl** installed, most of the distributions)

**curl -s https://courses.zahariev.pro/m7.sh | sudo bash**

Repeat the procedure until you get as much **PASS** marks as possible. This may include adjustments on what you did or even start from the beginning

Once, satisfied by what you accomplished, use the homework template document (available in the section for the module – ***Домашно – M7 – Шаблон за решение***) and paste the link you received as a result

Include the commands you used for every step. Also include the output if you like (either as pictures or as text)