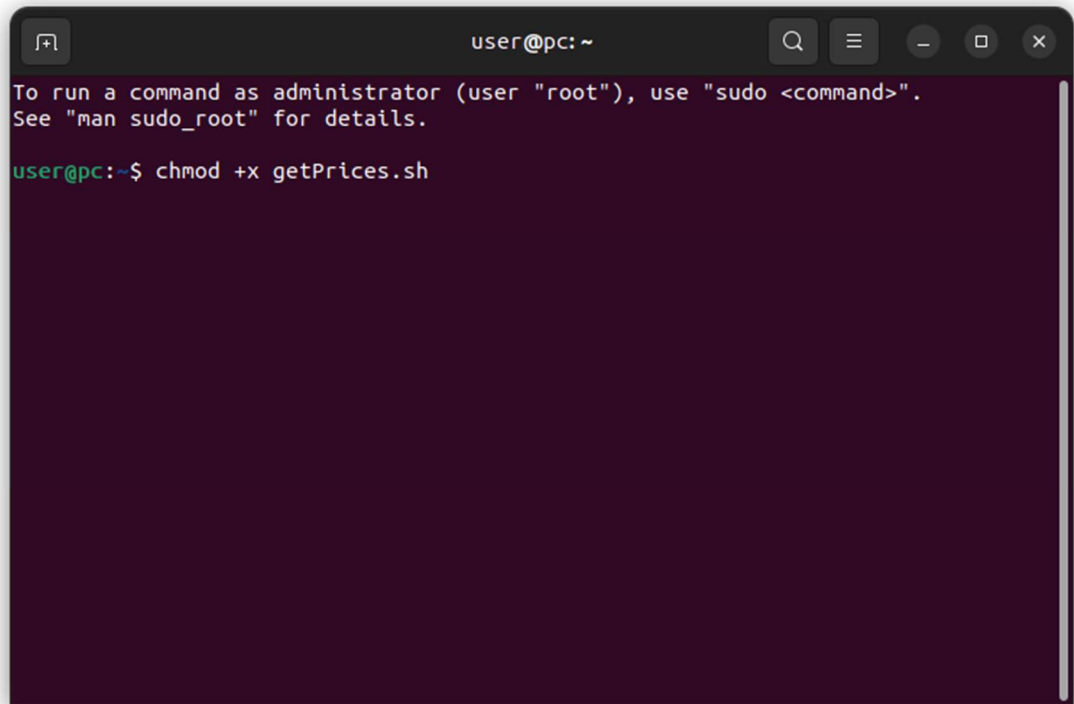


## Instructions for using HIG generator on Linux O.S.

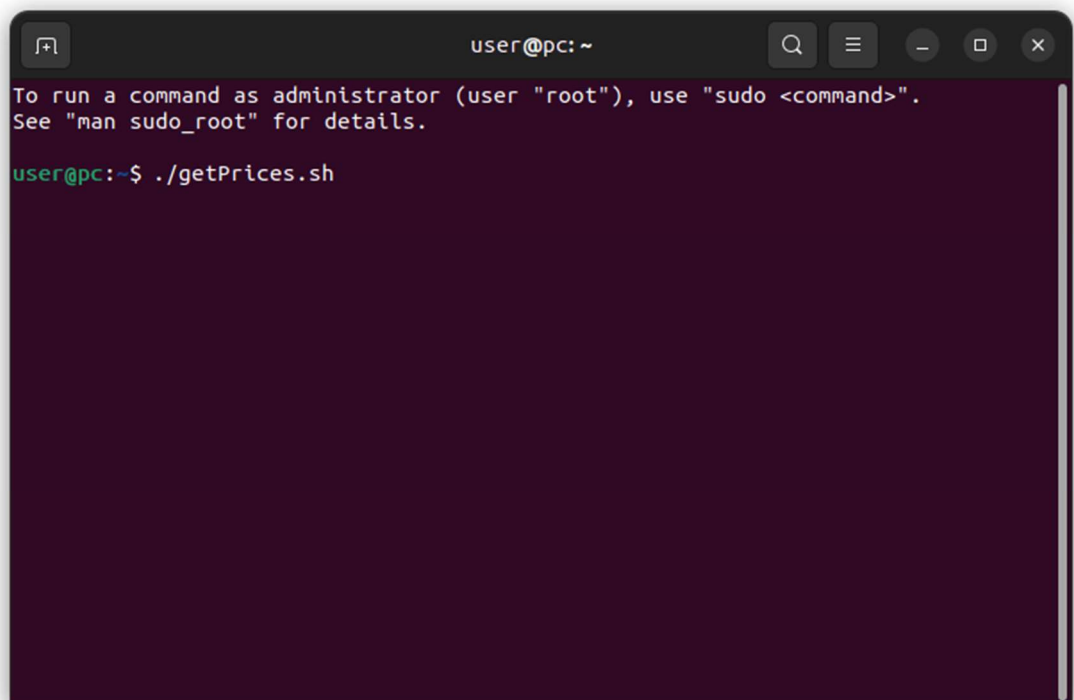
1. Open your terminal pressing CTRL + Alt + T
  - a. Decide if realistic data is sufficient or real data are required
  - b. If realistic is sufficient, skip to step 5.
  - c. If real data is required, continue with step 2.
2. Reach the destination folder of the downloaded GitHub files.
  - a. Execute "chmod +x getPrices.sh".



A terminal window with a dark purple background. The title bar shows 'user@pc: ~'. The terminal text includes a message about running commands as administrator, followed by the command 'chmod +x getPrices.sh' being entered at the prompt.

```
user@pc: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
user@pc:~$ chmod +x getPrices.sh
```

3. Execute "./getPrices.sh".



A terminal window with a dark purple background. The title bar shows 'user@pc: ~'. The terminal text includes a message about running commands as administrator, followed by the command './getPrices.sh' being entered at the prompt.

```
user@pc: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
user@pc:~$ ./getPrices.sh
```

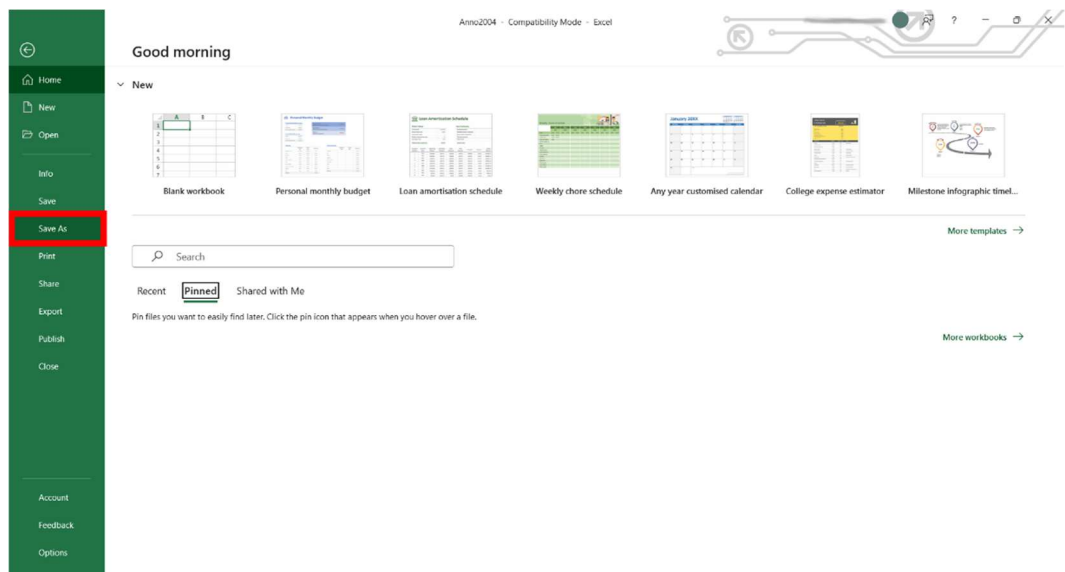
4. Convert the .xls files in semicolon separated .csv files.  
For each .xls file.
  - a. Open the .xls file.
  - b. Select sheet “Prezzi-Prices”.

The screenshot shows the Microsoft Excel interface with the 'File' menu highlighted in the top ribbon. The worksheet 'Prezzi-Prices' is active, displaying a large table of data. The table has columns labeled 'DataDate (YYYYMMDD)', 'Ora', and various product codes (PUN, AUST, BRNN, CALB, CNOR, CORC, CSUD, E\_NE, E\_NW, FRAM, GREC, MFTV, NORD, PBNF, PRGP, ROSN, SARD, SICI, SLOV, SUD, SVZ, TBRV). The data rows show numerical values for each product code across different dates and times. The 'File' menu is highlighted in the top ribbon, and the 'Prezzi-Prices' sheet is selected in the bottom-left corner.

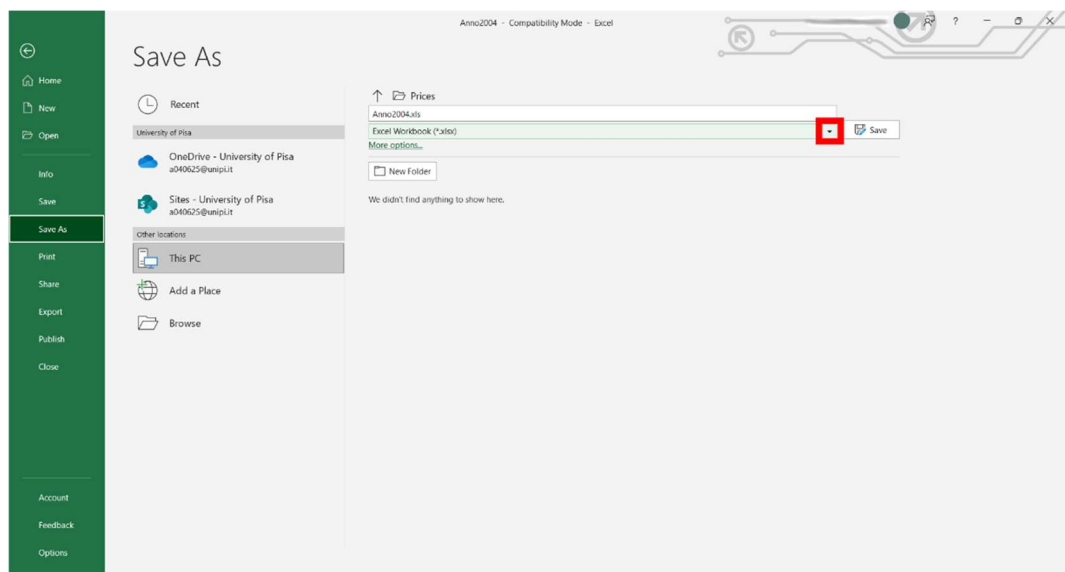
- c. Click on “File”.

This screenshot is identical to the one above, showing the Microsoft Excel interface with the 'File' menu highlighted in the top ribbon. The worksheet 'Prezzi-Prices' is active, displaying a large table of data. The table has columns labeled 'DataDate (YYYYMMDD)', 'Ora', and various product codes (PUN, AUST, BRNN, CALB, CNOR, CORC, CSUD, E\_NE, E\_NW, FRAM, GREC, MFTV, NORD, PBNF, PRGP, ROSN, SARD, SICI, SLOV, SUD, SVZ, TBRV). The data rows show numerical values for each product code across different dates and times. The 'File' menu is highlighted in the top ribbon, and the 'Prezzi-Prices' sheet is selected in the bottom-left corner.

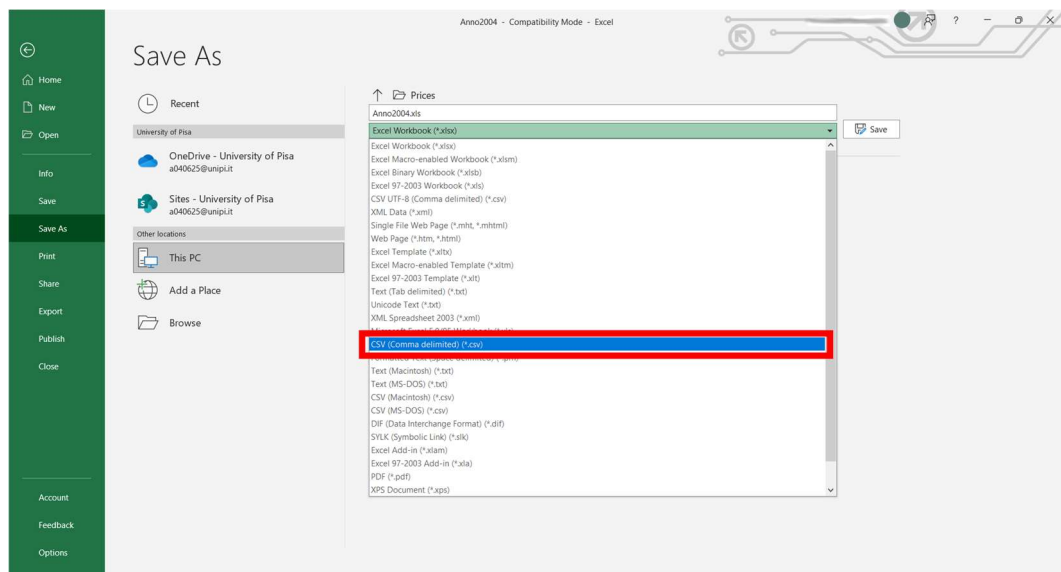
d. Click on “Save as”.



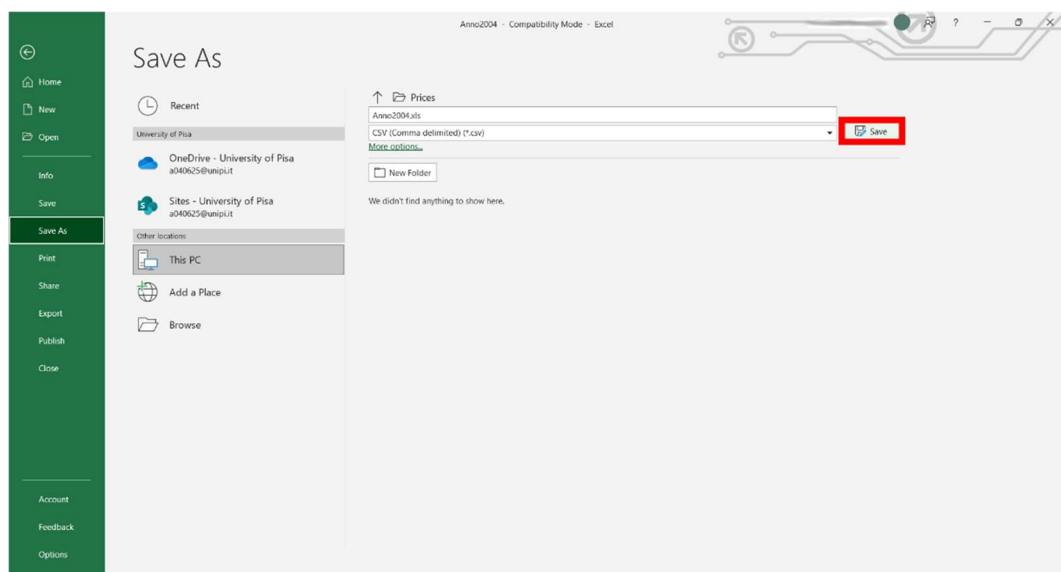
e. Select the saving format.



f. Choose “CSV (\*.csv)”.

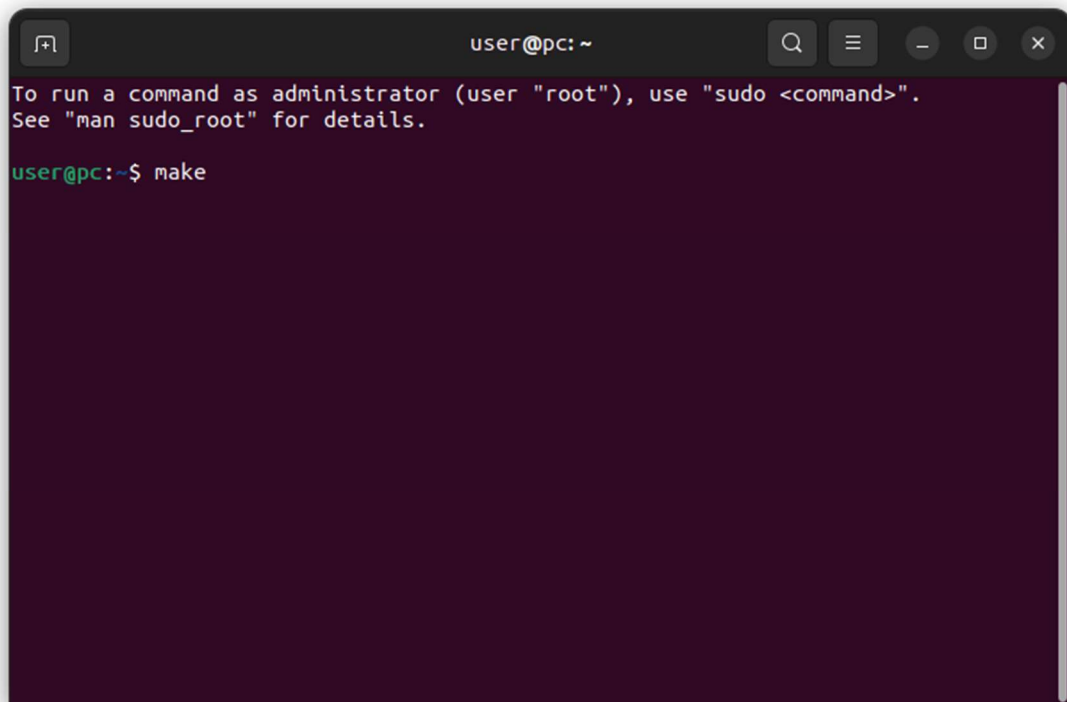


g. Verifying that the name of the file is “Anno YYYY.csv” where YYYY is the year in question, for example, “Anno 2004.csv”, click on “Save”. Please notice there is a whitespace between the word 'Anno' and the year.



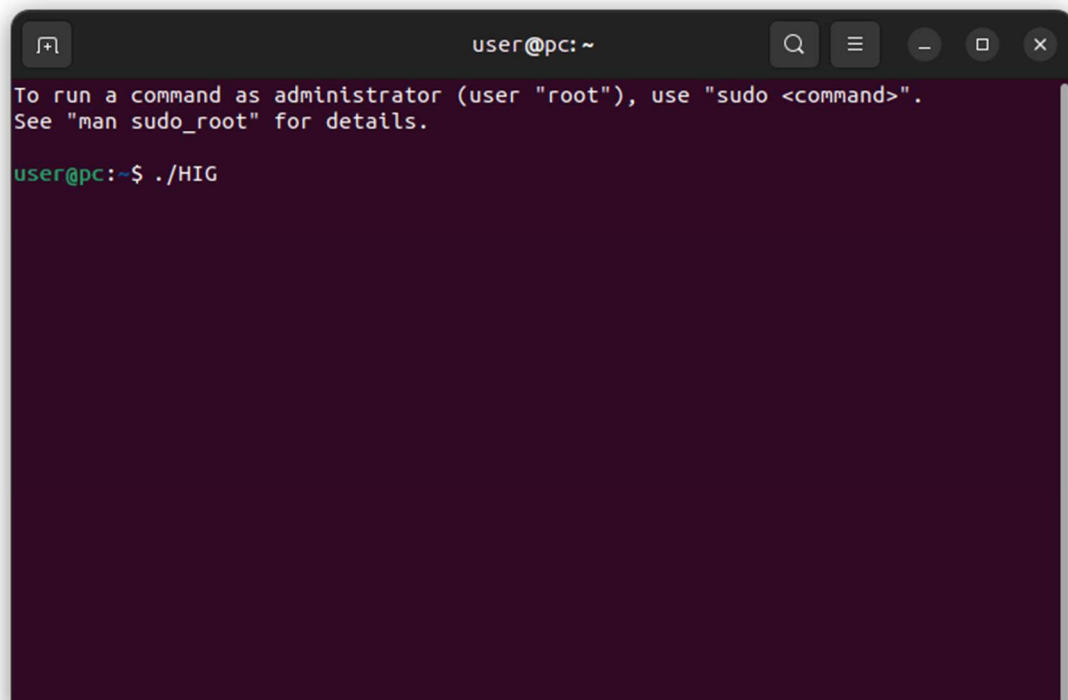
- h. A comment about multiple sheets may appear. It can be ignored. The correct sheet as previously selected will be used.
- i. In North America and some other countries, the default list separator is a comma, so you get CSV **comma** delimited. In European countries, a comma is reserved for the decimal symbol, and the list separator is generally set to **semicolon**. HIG generators uses **semicolon** therefore it is necessary either to change the region settings of the user's device or edit the .csv file with any text editor and using "search and replace", automatically replace commas with semicolons.
- j. Put all csv files into Prices folder without subfolder replacing the existing files with only realistic data. All zip, Excel, and subfolder files can be deleted.

5. Go again to the terminal at the destination folder of the downloaded GitHub files and execute "make".



```
user@pc: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
user@pc:~$ make
```

6. Execute "./HIG".



```
user@pc: ~  
To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo_root" for details.  
user@pc:~$ ./HIG
```

7. Please, follow the instructions of the generator. Enjoy creating instances.