Chapter 2: Installing Scala

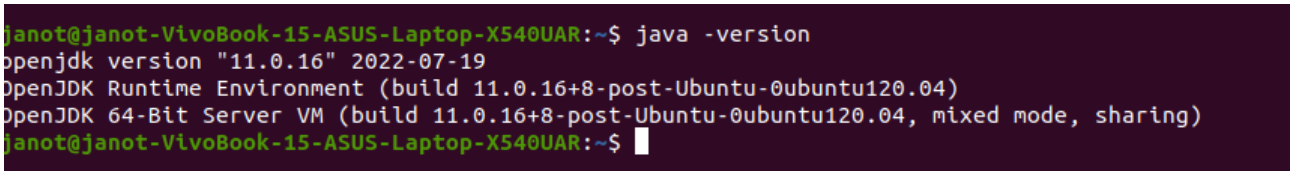
Exercises :

1. Figure out how to install Scala on Linux in an offline setting (e.g., on a system that's not connected to the Internet). You will encounter such scenarios extensively in professional environments due to security controls.
2. Type scala -help at the command prompt and familiarize yourself with as many options available as possible.
3. Try installing multiple versions of Scala on your system and investigate if there are any challenges.
4. Research the latest versions of Scala available on the website and make a habit of going through the release notes to understand the latest enhancements in the new releases.

Answers :

1. Installing Scala on Linux

before installing scala you have to make sure that java is well installed and if it is not the case do it first before continuing
type **java -version** to check it



First, download from the Scala website the archive file (in .tgz format) of the latest version of the language: http://www.scala-lang.org/downloads.
Here is how to get it via the command line :

$ wget http://www.scala-lang.org/downloads/distrib/files/scala-2.10.0.tgz

Then we extract the content of the archive file: **$ tar xvfz scala-2.10.0.tgz**
The files are extracted to the scala-2.10.0 folder. The following output of the tree command shows the file structure.

cd scala-2.10.0
$ tree -L 1

```
.
├── bin
├── doc
├── examples
├── lib
├── man
├── misc
└── src
```

The executables are in the bin folder and the libraries in the lib folder. On my computer the files are in ~/tools/scala-2.10.0 on which I created the symbolic link /opt/scala since I want to be able to easily change Scala version.

sudo ln -s ~/tools/scala/scala-2.10.0 /opt/scala

Let's check the installation by displaying the Scala version:

$ /opt/scala/bin/scala -version

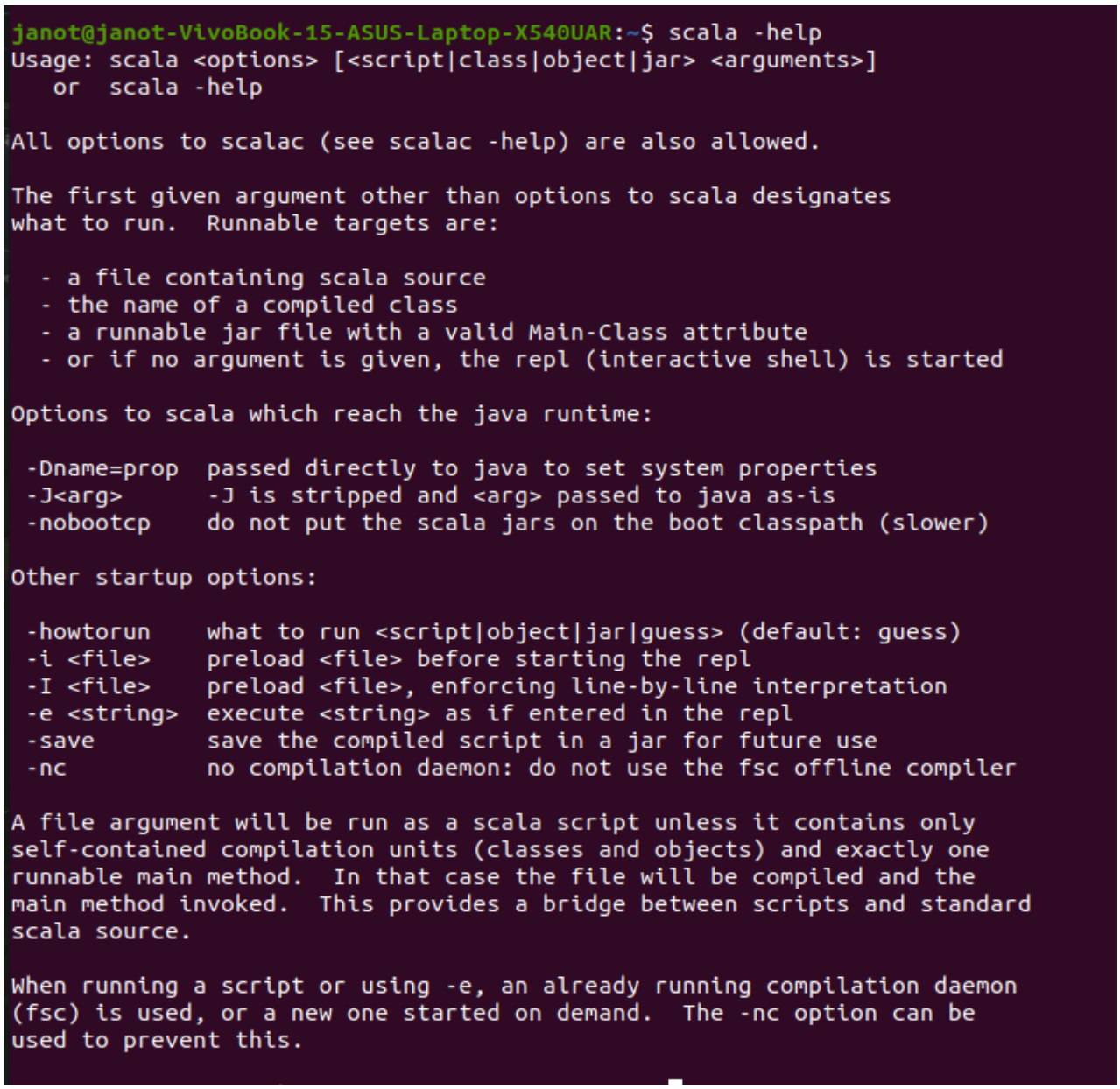
It works but it's not convenient to type the full path of the command each time the Scala interpreter is launched. To fix this I add the /opt/scala/bin folder to the system path with the following command:

$ export PATH=$PATH:/opt/scala/bin

By putting the previous line in the .bashrc file the executables in /opt/scala/bin will be added to the system path when logging in.

$ scala

2.



3.

```
janot@janot-VivoBook-15-ASUS-Laptop-X540UAR:~$ sudo apt install scala
Lecture des listes de paquets... Fait
Construction de l'arbre des dépendances
Lecture des informations d'état... Fait
scala est déjà la version la plus récente (2.11.12-4).
Le paquet suivant a été installé automatiquement et n'est plus nécessaire :
  libfwupdplugin1
Veuillez utiliser « sudo apt autoremove » pour le supprimer.
0 mis à jour, 0 nouvellement installés, 0 à enlever et 100 non mis à jour.
janot@janot-VivoBook-15-ASUS-Laptop-X540UAR:~$
```

4.