Scientific Programming
Assignment Sheet 1

<u>Exercise 1</u> (*Secure Shell*)

In addition to the course material provided on moodle we are also going to use the version control system Subversion to manage slides, assignment sheets and sample solutions for the course on Scientific Programming.

In order to access the central repository you need to generate a public-private key pair and provide us with your public key. This exercise will guide you through the process.

a) In order to generate the key pair perform the following steps:

- Start your Virtualbox and boot Kubuntu.
- Open a terminal by clicking on the *Applcation Launcher* in the lower left corner of your screen and then select *Konsole*.
- Run the command

  ```
  ssh-keygen -t ed25519 -C <myComment>
  ```

  where you replace `<myComment>` with your family name.
- Do not change the default names or storage location for the keys as suggested by `ssh-keygen`.
- Encrypt the private key by entering a passphrase of your own choosing. Remember and/or make a note of the passphrase, you will need it later!

b) Check that you now have a sub-directory `$HOME/.ssh` containing the two files

- `id_ed25519` *your private key*
- `id_ed25519.pub` *your public key*

c) Upload the public key file `id_ed25519.pub` in moodle.

Please complete this assignment by Friday, 23 April 2021.

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