**Assignment 1**

Create an interactive script called ‘remote\_copy.sh’. This script will prompt for a file location on the local system and file-name. Secondly the script has to ask for a username and a remote machine name (or Ip-address for the remote system). The username has to be used as a user for the remote-file-copy (the script will prompt for a password).

This script needs to check if the current user had access/rights to the file that needs to be copied and issue a warning if the current user does not have rights to access the file (on the local machine). It will the copy the file to the remote system, placing the file in the /tmp directory using the remote-username specified in the script.

**Assignment 2**

Create a script called ‘backup\_script.sh’. This script uses an argument when started (it is started with a directory name after the scriptname). The directory (name) specified when starting the script needs to be “back-upped”. All files will be placed in a TAR-ball and zipped using Gzip. The backup file is called ‘backup\_file.tgz’ and needs to be placed in /tmp.

**Describe in a commented line** how to schedule this script in Cron. Starting on every Sunday at 01:00 AM for a backup of /home and redirecting error-output to a appended file called /tmp/backup\_error.log.

**Assignment 3**

A user wants to know if a specific port is being used by an application; create a script called ‘portlistener.sh’ which will prompt the user for a specific port number.

If the port is in use the script will write “Port is in use” to the screen. If the port is not in use the script will write “Port not in use”.

Tip: netstat