# Assignment 2 (10 Marks)

1. Login as linuxuser (su - linuxuser)
   1. **cp /scripts/hello-2.8.tar.gz ./**
   2. Extract the contents using the **tar** command
   3. Create a bzip’d tar file named **~/hello-2.8.tar.bz2** containing the contents of **~/hello-2.8**
   4. Create an uncompressed tar file named **~/hello-2.8.tar** containing the contents of **~/hello-2.8**
2. Using **du**
   1. Show the amount of space used by the **~/hello-2.8** directory
   2. In human-readable format
   3. Redirect the output to a file named **~/hellospace.txt**
3. Using **du**
   1. Show the amount of space used by the **/scripts/work** directory
   2. Summarize the output
   3. In human-readable format
   4. Redirect the output to a file named **~/workspace.txt**
4. Using **df** 
   1. show the amount of free space in human-readable format on **/dev/sda1** (just /dev/sda1)
   2. redirect the output to **~/sda1.txt**
5. Gzip the file **~/hello-2.8/README**
6. Bzip the file **~/hello-2.8/TODO**
7. Using **tar**
   1. List the contents of **/scripts/asciiquarium.tar.gz**
   2. Redirect the output to a file named **~/ascii.txt**
8. Using **ps aux** and **grep**
   1. Get a list of all processes
   2. Use grep to list processes that live in /sbin/ (just /sbin/ not /usr/sbin/ or other directories)
   3. Redirect the output to a file named **~/psaux.txt**
9. Using **find**, **grep**, **sort** and **wc**
   1. Create a directory **~/assign2**
   2. Use **find** with the **-exec** option to copy all files in **/scripts/work** and below that begin with the letter ‘Z’ or ‘z’ to **~/assign2**
   3. Use **grep** to find all the words in **~/assign2/\*** that begin with ‘a’ or ‘A’, begin with ‘d’ or ‘D’, or end in ‘ly’. There should be no filenames or line numbers.
   4. Redirect the output to **~/unsorted.txt**
   5. Use **sort** on **~/unsorted.txt** to sort reverse alphabetically
   6. Redirect the output to **~/sorted.txt**
   7. Use **wc** to append the number of lines in **~/sorted.txt** to the end of **~/sorted.txt**

**Submitting your work**

|  |
| --- |
| **sudo /scripts/assignment02.sh** |

**Question 1: /home/linuxuser/hello-2.8.tar.gz - exists**

**Question 1: /home/linuxuser/hello-2.8 - exists**

**Question 1: /home/linuxuser/hello-2.8.tar.bz2 - exists**

**Question 1: /home/linuxuser/hello-2.8.tar - exists**

**Question 2: /home/linuxuser/hellospace.txt - exists**

**64K hello-2.8/tests**

**140K hello-2.8/doc**

**676K hello-2.8/po**

**404K hello-2.8/m4**

**48K hello-2.8/man**

**728K hello-2.8/lib**

**60K hello-2.8/contrib**

**32K hello-2.8/build-aux/snippet**

**576K hello-2.8/build-aux**

**64K hello-2.8/src**

**3.5M hello-2.8**

**Question 3: /home/linuxuser/workspace.txt - exists**

**12M /scripts/work**

**Question 4: /home/linuxuser/sda1.txt - exists**

**Filesystem Size Used Avail Use% Mounted on**

**/dev/sda1 9.7G 1.6G 8.1G 17% /**

**Question 5: /home/linuxuser/hello-2.8/README.gz - exists**

**/home/linuxuser/hello-2.8/README.gz: gzip compressed data, was "README", last modified: Sat Jan 7 07:44:35 2012, from Unix**

**Question 6: /home/linuxuser/hello-2.8/TODO.bz2 - exists**

**/home/linuxuser/hello-2.8/TODO.bz2: bzip2 compressed data, block size = 900k**

**Question 7: /home/linuxuser/ascii.txt - exists**

**-rw-rw-r-- kbaucom/kbaucom 228 2013-03-09 08:55 asciiquarium\_1.1/CHANGES**

**-rw-rw-r-- kbaucom/kbaucom 1060 2013-03-09 08:55 asciiquarium\_1.1/README**

**-rw-rw-r-- kbaucom/kbaucom 45 2013-03-09 08:55 asciiquarium\_1.1/MANIFEST**

**-rw-rw-r-- kbaucom/kbaucom 27679 2013-03-09 08:55 asciiquarium\_1.1/asciiquarium**

**-rw-rw-r-- kbaucom/kbaucom 18092 2013-03-09 08:55 asciiquarium\_1.1/gpl.txt**

**Question 8: /home/linuxuser/psaux.txt - exists**

**root 1332 0.0 0.0 13372 160 ? Ss Nov21 0:00 /sbin/mdadm --monitor --pid-file /run/mdadm/monitor.pid --daemonise --scan --syslog**

**root 1642 0.0 0.1 14472 2188 ttyS0 Ss+ Nov21 0:00 /sbin/agetty --keep-baud 115200 38400 9600 ttyS0 vt220**

**root 1643 0.0 0.1 14656 1768 tty1 Ss+ Nov21 0:00 /sbin/agetty --noclear tty1 linux**

**root 3309 0.0 0.2 47624 3520 ? Ss Nov21 0:00 /sbin/rpcbind -f -w**

**linuxus+ 23744 0.0 0.0 12944 1028 pts/0 S+ 18:31 0:00 grep --color=auto /sbin/**

**Question 9: /home/linuxuser/assign2 - exists**

**Zandra's**

**zarape's**

**Zebadiah's**

**zebu**

**zeomorphi**

**zillionaire's**

**Zl**

**Zoltai's**

**Zorah**

**Zuidholland's**

**zygnemaceous**

**zygotenes**

**Question 9: /home/linuxuser/unsorted.txt - exists**

**Aguacateca**

**deltoids**

**antipetalous**

**dialin**

**Audrye's**

**Question 9: /home/linuxuser/sorted.txt - exists**

**acnidosporidia**

**acervulus**

**access**

**Aani's**

**83 sorted.txt**