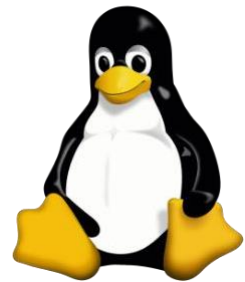




# CS2000 – Laboratory 06 (Part2)

**Bash**

**`#!/bin/bash`**



## Task 1- Use “sed” command to answer the following questions

1. Create a file with the following text  
Linux is a free operation system  
Linus Torvalds start the project to create linux as a free OS kernel in 1991  
Linus was originally from Finland and University of Helsinki  
You can download linux for free. Services like ftp can be installed on linux  
Unix and linux are different  
Some of the versions of Linux are Fedora, Redhat , Ubuntu, ...
2. Search the file and print:
  - a. only lines containing “linux”
  - b. only lines that do not contain “linux”
  - c. Lines 3 to end
  - d. All lines excluding line 3 to 5
3. Search the file and replace all “linux” with “Linux”
4. Write the output from question 3 in a file

## Task 2- Use “awk” command to answer the following questions

1. Using information below create awkexample.csv file. Read the file and print name and email address field only.

Name	Surname	Email address	ID
John	Smith	<a href="mailto:j.smith@cs.com.au">j.smith@cs.com.au</a>	1234
Garon	May	<a href="mailto:g.may@cs.com.au">g.may@cs.com.au</a>	5678
Kaven	Hill	<a href="mailto:k.Hill@cs.com.au">k.Hill@cs.com.au</a>	9012
Alisa	Hoy	<a href="mailto:A.hoy@cs.co.au">A.hoy@cs.co.au</a>	4567

2. Using awk command print the first field of file “/etc/passwd”
3. Print each system user home path using “function” and “awk” command

References:

<https://likegeeks.com/awk-command/>

Book: Bash Guide for Beginners

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## Task 1

### Question 1

Create the file called linuxfile.txt from the provided text.

### Question 2

- a) `sed -n '/linux/p' linuxfile.txt`
- b) `sed -n '/linux/!p' linuxfile.txt`
- c) `sed -n '3,$'p linuxfile.txt`
- d) `sed '3d;5d' linuxfile.txt`

### Question 3

```
sed 's/linux/Linux/g' linuxfile.txt
```

### Question 4

```
sed 's/linux/Linux/g' linuxfile.txt > newlinuxfile.txt
```

## Task 2

### Question 1

```
awk -F "," '{ print $1 $3}' awkexample.csv
```

### Question 2

```
awk 'NR==1{ print $1 }' /etc/passwd
```

### Question 3

```
awk -F ":" '$7 == "/bin/false" {print $0}' /etc/passwd
```