Q1. A) Write and execute the following Commands on Linux

i) Prepare two text files and check output of cmp commands.

```
cmp file1.txt file2.txt
```

ii) Accept the file and display that file along with line numbers.

```
#!/bin/bash
echo "Enter the name of the file:"
read filename
nl "$filename"
```

iii) Count number of files in current working directory.

```
ls | wc –l
```

iv) Create file as follows and write commands for same.

$ cat file.txt unix or linux os is unix good os is linux good os

Write a linux command to print characters of 4th position.

```
cut -c 4 file.txt
```

v) Create a file by name My_country.txt with least 5lines long using VI editor's input commands and try the following using Vi commands. Move to the first line of the file.

```
vi My_country.txt
gg
```

Q1.B) Write a shell script to print out the length of longest (number of characters) line in a file.

```
#!/bin/bash

echo "Enter file:"
read filename

longest_length=$(awk '{ if (length > max) max = length } END { print max }' "$filename")

echo "Length of the longest line in '$filename': $longest_length"
```

Q2. Write menu driven program to perform the following tasks

a) Create directory
b) Creating file
c) Displaying contents of file

Or

Q2. Write a shell script that deletes all lines containing a specified word in one or more files supplied as arguments to it.

```
#!/bin/bash
file="$1"
word="$2"

echo "File before removing the word \"$word\":"
cat "$file"

sed -i "/$word/d" "$file"

echo "File after removing the word \"$word\":"
cat "$file"
```