1. **Write down Linux commands for following statements:**
    a. **i. Redirect the output of ls command to a file named outfile. Use this as an input file**
    b. **for remaining commands. ii. To select the lines in a file which has digit as one of the character in that**
    c. **line and redirect the output to the file named list. iii. Assign execute permission to owner and remove read permission from**
    d. **other for an ordinary file named test by relative way. iv. Create an alias named rm that always deletes file interactively. v. Count the currently login users to the system**

Write down Linux commands for following statements:

i. Redirect the output of ls command to a file named outfile. Use this as an input file for remaining commands.

```
$ ls > outfile
$ cat outfile
```

ii. To select the lines in a file which has digit as one of the character in that line and redirect the output to the file named list.

prerequisite - have a file which has words with numbers

```
$ cat file_name | grep "[0-9]" > list
$ cat list
```

iii. Assign execute permission to owner and remove read permission from other for an ordinary file named test by relative way.

```
$ touch test
$ ls -l | grep test
$ chmod u+x,o-r test
$ ls -l | grep test
```

iv. Create an alias named rm that always deletes file interactively.

```
$ alias rm="rm -i"
$ rm some_file_name
```

v. Count the currently login users to the system.

```
$ who --count
    OR
$ who -u | wc -l
```

Write down Linux commands for following statements:

i. Redirect the output of cat command to a file named outfile. Use this as
an input file
for remaining commands. ii. List all hidden files under current directory and store in “hidden” file
iii. Assign write permission to owner and remove execute permission from
other for an ordinary file named test by absolute way. iv. To create soft and hard link for given file
v. To convert lowercase to upper case of a given file
vi. To extract 1st and 10th character of a given file
vii. To display how many times lines are repeated in a given file

i. Redirect the output of cat command to a file named outfile. Use this as an input file for remaining commands.

```
$ cat filename > outfile
```

ii. List all hidden files under current directory and store in “hidden” file

```
$ ls -a | grep "^\." > hidden
```

iii. Assign write permission to owner and remove execute permission from other for an ordinary file named test by absolute way.

```
$ chmod 206 test
```

0 because there is nothing specified for the group, only owner and other is specified

iv. To create soft and hard link for given file

hard link

```
$ ln [original filename] [link name]
```

soft link

```
$ ln -s [original filename] [link name]
```

v. To convert lowercase to upper case of a given file

```
$ cat ./LinuxCommands/Question2.txt | tr [:lower:] [:upper:]
```

!!! DOUBT !!!

vi. To extract 1st and 10th character of a given file

!!! DOUBT !!!

vii. To display how many times lines are repeated in a given file

18. Write Linux Commands for following:

i. To redirect the output of cp command to a file named outfile. Use this as an input file for remaining commands.

```
$ cp file1 file2
```

!!! DOUBT !!!

ii. To select the lines in a file which has 4 letter words in that line and redirect the output to the file named list.

iii. Assign write permission to owner and remove read permission from group user for an ordinary file named test by relative way.

```
$ chmod u+w,g-r test
```

iv. Create an alias named ls that always lists all the files including hidden files.

```
alias ls="ls -a"
```

v. Count the number of words in the list file.

```
cat list | wc -w
```

19. Write Linux Commands for following:

a. Redirect the output of mv command to a file named outfile. Use this as an input file for remaining commands.

```
$ mv location1 location2 > outfile
```

b. List all hidden files under current directory and store in “hidden” file

```
$ ls -a | grep "^\." > hidden
```

c. Assign write permission to group user and remove execute permission from owner for an ordinary file named test by absolute way

```
$ chmod 226 test
```

d. To create soft and hard link for given file

hard link

$ ln [original filename] [link name]

soft link

$ ln -s [original filename] [link name]

e. To convert lowercase to upper case of a given file

$ cat test | tr [:lower:] [:upper:]

!!! DOUBT !!!

f. To extract 2nd and 3rd character of a given file

$

!!! NOT SURE A BIT !!!

g. To display how many times lines are repeated in a given file

$ sort <file> | uniq --count