

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

- i) Display last 5 lines of any file.  
`tail -n 5 a.txt`
- ii) Remove files starting with A and having extension \*.txt.  
`rm -A |rm *.txt`
- iii) Count number of lines of files having extension \*.dat  
`Ls | wc -l *.txt`
- 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 by range 4-7.  
`Cut -b 4-7 file.txt`
- v) Write VI command to move first 2 lines and paste after 6th line.  
`2yy + P`

**Q1.B)** Write a shell script to accept filename from user and display number of words from file.

```
#!/bin/bash
echo "enter filename"
read filename
wc -w $filename
```

**Q2.** Write a shell script to check whether file is readable, writable or both or executable.

```
#!/bin/bash
echo "enter a filename"
read filename
if [ -r $filename ];
then
    echo "$filename is readable"
fi
if [ -w $filename ];
then
    echo "$filename is writable"
fi
if [ -x $filename ];
then
    echo "$filename is executable"
fi
if [ -r $filename ] && [ -w $filename ];
then
    echo " $filename is readable and writable"
fi
```

**OR**

**Q2.** Write a shell script to find factorial of number.

```
#!/bin/bash
echo "enter a number"
read number
fact=1
for ((i=2;i<=$number;i++))
{
    fact=$((fact * i))
}
echo "factorial of number is $fact"
```