

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

- i) Display the calendar for the current month.
`cal`
- ii) Display all files in current working directory
`ls`
- iii) Create the following text file a.txt and write commands based on it.

**Unix distributed 05 server Linux virtual 3
server Unix distributed 05 server
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Sort the above file on second field.
`sort -k2 a.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**
Create a file and display field from first to fourth of each line from the file.
`cut -d ' ' -f1-4 file.txt`
- v) Write Vi command to copy first three lines and paste after sixth line.
`:1,3t6`

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 greatest number among 3 numbers.

```
#!/bin/bash
echo "Enter the first number:"
read num1
echo "Enter the second number:"
read num2
echo "Enter the third number:"
read num3

if [ $num1 -gt $num2 ] && [ $num1 -gt $num3 ]; then
    echo "$num1 is the greatest number."
elif [ $num2 -gt $num1 ] && [ $num2 -gt $num3 ];
then
    echo "$num2 is the greatest number."
else
    echo "$num3 is the greatest number."
fi
```

Or

Q2. Write a shell script to find factors of number.

```
#!/bin/bash

if [ $# -ne 1 ]; then
    echo "Usage: $0 <number>"
    exit 1
fi

number=$1

echo "Factors of $number are:"
for (( i=1; i<=$number; i++ )); do
    if [ $(($number % i)) -eq 0 ]; then
        echo $i
    fi
done
```