

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

- i) Display first 5 lines of Student.txt
`head -n 5 Student.txt`
- ii) Display list of all files ending with .txt from current working directory.
`ls *.txt`
- 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
Distributed processing 6 system**
Sort the above file on second and fourth filed on reverse order.
`sort -k2,2r -k4,4r a.txt`
- iv) Create two file Solaris.txt and Eclipse.txt to specify a delimiter for sequential Merging of files.
`touch Solaris.txt Eclipse.tx`
- v) Create a file by name My_country.txt with least 25lines long using VI editor's input commands and try the following using VI commands replace each occurrence of word "College" with Institute.
`vi My_country.txt`
`:%s/College/Institute/g`

Q1. B) Write a shell script to accept a file name and display its contents.

```
#!/bin/bash
if [ $# -ne 1 ]; then
    echo "Usage: $0 <file_name>"
    exit 1
fi

file_name=$1

if [ ! -f "$file_name" ]; then
    echo "File $file_name does not exist."
    exit 1
fi

cat "$file_name"
```

Q2. Write a shell script to check whether given number is odd or even.

```
#!/bin/bash

echo "Enter a number:"
read number

if [ $((number % 2)) -eq 0 ]; then
    echo "$number is even."
else
    echo "$number is odd."
fi
```

Or

Q2. Write a shell script to find reverse of number

```
#!/bin/bash

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

number=$1
reverse=0

while [ $number -gt 0 ]; do
    remainder=$(( $number % 10 ))
    reverse=$(( $reverse * 10 + $remainder ))
    number=$(( $number / 10 ))
done

echo "Reverse of the number: $reverse"
```