

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

- i) Display text "Good Morning" using command.

```
echo "Good Morning"
```

- ii) Write a command to display contents of file in reverse order

```
tac filename
```

- iii) Redirect output of long listing of directories in abc.txt

```
ls -l /path/to/directory > abc.txt
```

Replace /path/to/directory with the path of the directory you want to list

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

**Student Fruits**

Write a linux command to merge a file by pasting the data into 2 columns using a colon separator.

```
echo "Student" > Student
```

```
echo "Fruits" > Fruits
```

```
paste -d ":" Student Fruits
```

- v) Create a file by Inputdevices.txt with least 5 lines long using vi editor's input commands and try the following using Vi commands.

```
vi Inputdevices.txt
```

Move cursor to first line in the file **gg**

**Q1. B) Write a shell script to calculate simple interest.**

```
#!/bin/bash
```

```
echo "Enter principle:"
```

```
read P
```

```
echo "Enter time:"
```

```
read T
```

```
echo "Enter rate:"
```

```
read R
```

```
SI=$(( (P * T * R) / 100 ))
```

```
echo "Simple Interest: $SI"
```

**Q2. Write a shell script to accept three number greatest from that.**

```
#!/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 display even numbers between two numbers.**

```
#!/bin/bash
```

```
echo "Enter the starting number:"
```

```
read start_num
```

```
echo "Enter the ending number:"
```

```
read end_num
```

```
echo "Even numbers between $start_num and $end_num are:"
```

```
for (( i=start_num; i<=end_num; i++ )); do
```

```
    if (( i % 2 == 0 )); then
```

```
        echo "$i"
```

```
    fi
```

```
done
```

