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

- i) Display calendar of month April 2020. cal april 2020
- ii) Create a file one.txt which contains id, name, designation, Address using Linux command.

Cat > one.txt

Id 123

Name abc

Designation software engineer

Address pune

iii) Create any text file and count number of bytes, words and lines in file.

```
cat > a.txt
wc -c a.txt
wc -w a.txt
wc -l a.txt
```

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

Linux

Unix

Solaris

HPUX

AIX

Write a linux command to join all lines separated by tab.

```
cat > a.txt
Paste -s a.txt
```

v) Write Vi command to delete first n lines. 1.nd

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 two numbers check which is greater.

```
#!/bin/bash
echo "Enter the first number:"
read num1
echo "Enter the second number:"
read num2
if [ $num1 -gt $num2 ]; then
  echo "$num1 is greater than $num2"
elif [ $num1 -lt $num2 ]; then
  echo "$num2 is greater than $num1"
else
  echo "Both numbers are equal"
fi
                         OR
Q2.Write a shell script to find number is palindrome
or not.
#!/bin/bash
echo -n "Enter a number: "
read num
original_num=$num
rev=0
while [ $num -gt 0 ]; do
  remainder=$(( $num % 10 ))
  rev = \$(( \$rev * 10 + \$remainder ))
  num=$(( $num / 10 ))
done
if [ $original_num -eq $rev ]; then
  echo "$original_num is a palindrome."
  echo "$original_num is not a palindrome."
Fi
#!/bin/bash
read -p "Enter a number: " num
reverse=$(echo "$num" | rev)
if [ "$num" = "$reverse" ]; then
 echo "$num is a palindrome."
  echo "$num is not a palindrome."
```