Ex. No. : 3a Date : 07.02.2025

Register No.: 230701385 Name: VISHWAK S

Shell Script - Basic Calculator

Aim:

To write a Shell Script to display a basic calculator.

Result:

Hence the Shell Script to display a basic calculator has been successfully executed.

Ex. No. : 3a Date : 07.02.2025

Register No.: 230701385 Name: VISHWAK S

Shell Script - Leap year

Aim:

To write a Shell Script to test given year is leap or not using conditional statement

```
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echo "enter a year"

read year

if [ $(($year%4)) -eq 0 ]

then

echo "leap year"

else

echo "not a leap year"

fileap.sh" 8L, 111C

**Leap.sh" 8L, 111C

**Student.vi

**Discrete Settings Help

**Discrete Se
```

```
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[student@localhost ~]$ vi leap.sh

[student@localhost ~]$ sh leap.sh
enter a year
2024

leap year

[student@localhost ~]$ sh leap.sh
enter a year
1947
not a leap year

[student@localhost ~]$ ■

student@localhost ~]$ ■
```

Result:

Hence the Shell Script to test given year is leap or not using conditional statement has been executed successfully.

Ex. No. : 3b Date : 08.02.2025

Register No.: 230701385 Name: VISHWAK S

Shell Script - Reverse the Number

Aim:

To write a Shell script to reverse a given digit using a looping statement.

```
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Cho "Enter a number: "
read n
rev=0
while [$n -gt 0]
do
d='expr $n % 10'
rev=s(echo "$rev * 10 + $d"|bc)
n='expr $n / 10'
done
echo $rev

"reverse.sh" 11L, 143C
```

Result:

Hence the Shell script to reverse a given digit using a looping statement has been executed successfully.

Ex. No. : 3b Date : 08.02.2025

Register No.: 230701385 Name: VISHWAK S

Shell Script - Fibonacci Series

Aim:

To write a Shell script to generate a Fibonacci series using a for loop.

```
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Cho "Enter number of terms"
read n
a=-1
b=1
echo "Fibonacci Series"
for((i=1²;i<=sn;i++))
do
c=$(echo "$a + $b"|bc)
echo $c
a=$b
b=$c
done

"fibbonacci.sh" 13L, 141C

Student:vi

Tibbonacci.sh" 13L, 141C
```

Result:

Hence the Shell script to generate a Fibonacci series using for loop has been executed successfully.