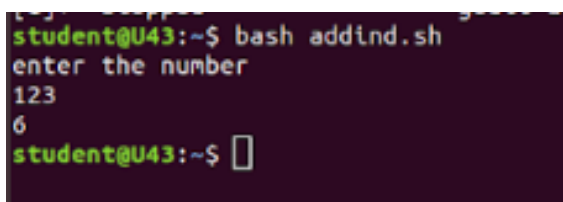


NETWORKING & SYSTEM ADMINISTRATION LAB**Experiment No.: 20****Aim**

Write a shell scripting to sum of digit in a number

Procedure:

```
#!/bin/bash
echo "Enter a number"
read a
sum=0
while [ $a -gt 0 ]
do
    m=$((a % 10))
    a=$((a / 10))
    sum=$((sum + m))
done
echo $sum
```

Output Screenshot

```
student@U43:~$ bash addind.sh
enter the number
123
6
student@U43:~$
```

Experiment No.: 21**Aim**

Write a shell scripting to find the average

Procedure:

```
#!/bin/bash
echo "Enter the size(a)"
```

Name: sruthy chandran**Roll No:43****Batch: Reg mca****Date:12/05/22**

```

read a

i=1
sum=0

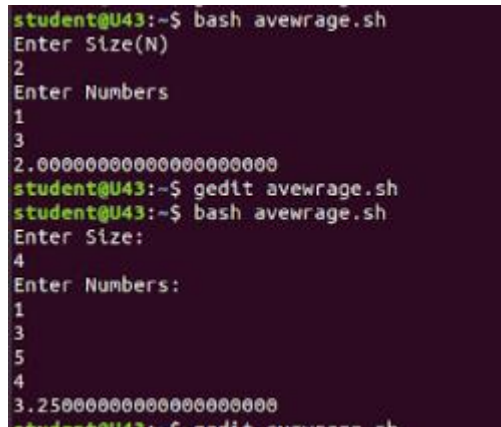
echo "Enter the numbers"
while [ $i -le $a ]
do
    read b
    sum=$((sum + b))
    i=$((i + 1))
done

average=$((echo $sum / $a | bc -l))

echo $average

```

Output Screenshot



```

student@U43:~$ bash avewrage.sh
Enter Size(N)
2
Enter Numbers
1
3
2.00000000000000000000000000000000
student@U43:~$ gedit avewrage.sh
student@U43:~$ bash avewrage.sh
Enter Size:
4
Enter Numbers:
1
3
5
4
3.25000000000000000000000000000000
student@U43:~$ gedit avewrage.sh

```

Experiment No.: 22

Aim

Write a shell scripting to find the calculator

Procedure:

```

#!/bin/bash

echo "Enter Two numbers : "
read a
read b

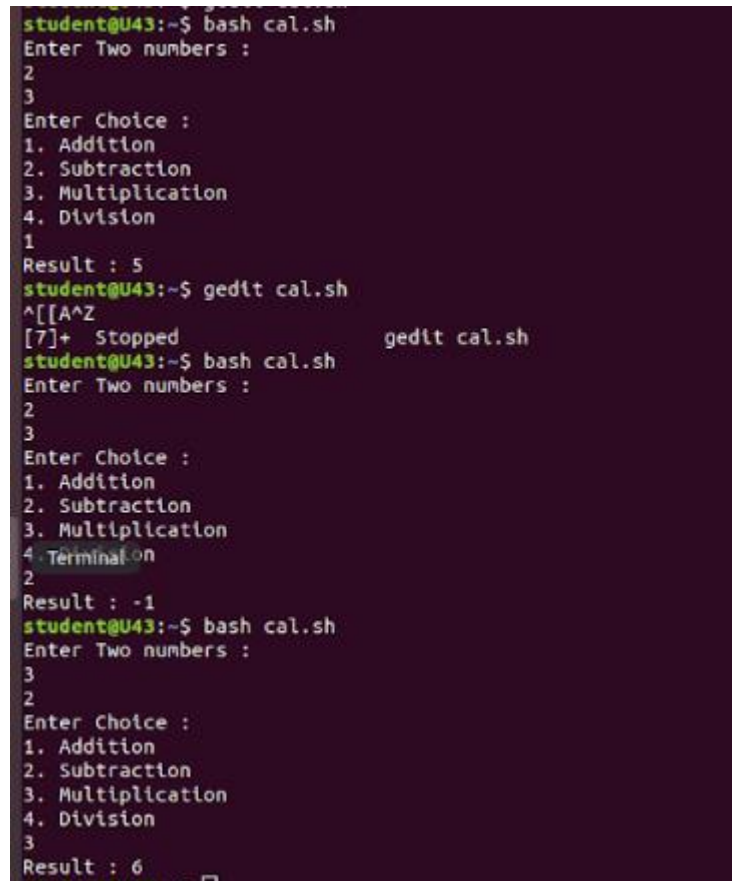
echo "Enter Choice :"
echo "1. Addition"
echo "2. Subtraction"

```

```
echo "3. Multiplication"
echo "4. Division"
read ch

case $ch in
  1)res=`echo $a + $b | bc`
    ;;
  2)res=`echo $a - $b | bc`
    ;;
  3)res=`echo $a \* $b | bc`
    ;;
  4)res=`echo "scale=2; $a / $b" | bc`
    ;;
esac
echo "Result : $res"
```

Output Screenshot



```
student@U43:~$ bash cal.sh
Enter Two numbers :
2
3
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Division
1
Result : 5
student@U43:~$ gedit cal.sh
^[[A^Z
[7]+ Stopped                  gedit cal.sh
student@U43:~$ bash cal.sh
Enter Two numbers :
2
3
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Terminal on
2
Result : -1
student@U43:~$ bash cal.sh
Enter Two numbers :
3
2
Enter Choice :
1. Addition
2. Subtraction
3. Multiplication
4. Division
3
Result : 6
```