

Shell Script

1. Write a shell script to ask your name, and college name and print it on the

screen.

#!/bin/bash
echo Enter your name
read name
echo enter your college name
read college
echo details you entered
echo name :\$name
echo college name:\$college

Enter your name
enter your college name
details you entered
name : ammu
college name: ajce

2. Write a shell script to set a value for a variable and display it on command

line interface.

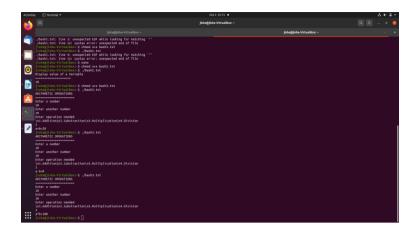
```
#!/bin/bash
echo "Display value of a Variable "
e
a=10
echo "$a"
```

```
Tishagjisha-VirtualBox:-5 namo
|ishagjisha-VirtualBox:-5 choof w+x bash2.txt
|ishagjisha-VirtualBox:-5 ./bash2.txt
|Display value of a Variable
```

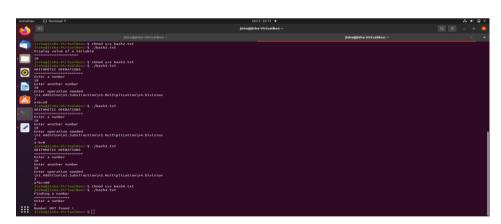
3. Write a shell script to perform addition, substation, multiplication, division

with two numbers that is accepted from user.

```
#!/bin/bash
echo "ARITHMETIC OPERATIONS"
echo "========""
echo "Enter a number"
read a
echo "Enter another number"
read b
echo "Enter operation needed"
echo "\n1.Addition\n2.Substraction\n3.Multiplication\n4.Division"
read op
case "$op" in
"1") echo "a+b="$(($a+$b));;
"2") echo "a-b="$(($a-$b));;
"3") echo "a*b="$(($a*$b));;
"4") echo "a/b="$(($a/$b));;
esac
```



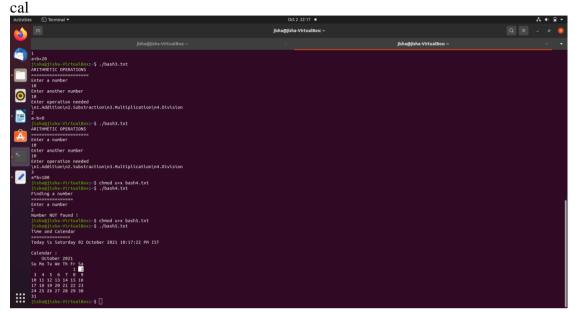
4. Write a shell script to check the value of a given number and display whether the number is found or not.



5. Write a shell script to display current date, calendar.

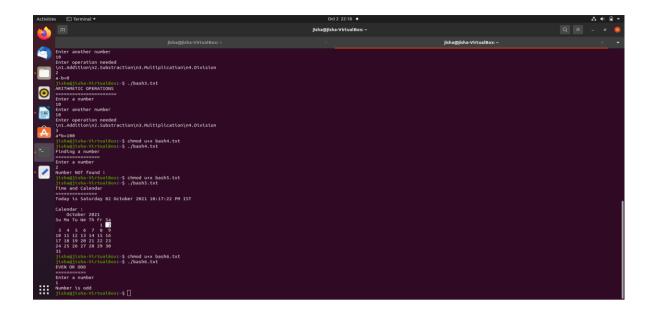
```
#!/bin/bash
echo "Time and Calendar"
echo "=========="
```

```
echo "Today is $(date)"
echo ""
echo "Calendar :"
```



6. Write a shell script to check a number is even or odd.

```
#!/bin/bash
echo "EVEN OR ODD"
echo "=======""
echo "Enter a number"
read n
x=$(($n%2))
if [ $x -eq 0 ]; then
echo "Number is Even"
else
echo "Number is odd"
fi
```



7. Write a shell script to check a number is greater than, less than or equal to

another number.

```
#!/bin/bash
echo "Comparing numbers"
echo "=========="
echo "Enter first number"
read a
echo "Enter second number"
read b
if [ $a -gt $b ]; then
echo "$a is greater"
elif [ $b -gt $a ]; then
echo "$b is greater"
else
echo "Both are Equal"
fi
```

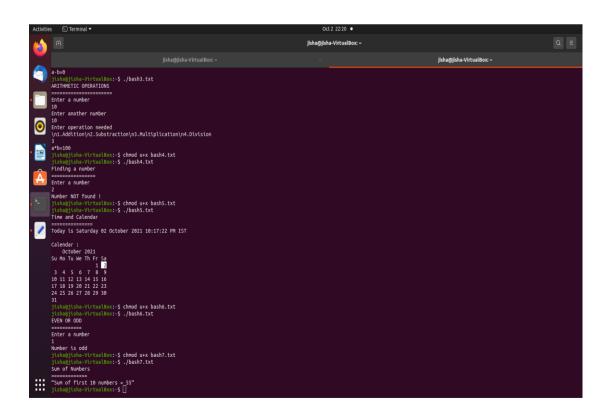
```
bash main.sh
"enter the number"

enter the second number"

is equal to 5"
```

8. Write a shell script to find the sum of first 10 numbers.

```
#!/bin/bash
echo "Sum of Numbers "
echo "========""
s=0
for (( i=1;i<=10;i++ ))
do
s=`expr $s + $i`
done
echo "Sum of first 10 numbers = $s"
```



9. Write a shell script to find the sum, the average and the product of the four

integers entered.

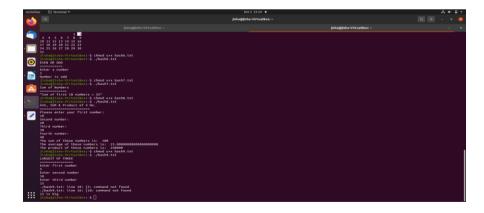
```
#!/bin/bash
echo "AVG, SUM & Product of 4 No."
echo "Please enter your first number: "
read a
echo "Second number: "
read b
echo "Third number: "
read c
echo "Fourth number: "
read d
sum = \$((\$a + \$b + \$c + \$d))
avg=$(echo $sum / 4 | bc -1)
prod=$(($a * $b * $c * $d))
echo "The sum of these numbers is: " $sum
echo "The average of these numbers is: " $avg
echo "The product of these numbers is: " $prod
```



10. Write a shell script to find the smallest of three numbers.

#!/bin/bash echo "LARGEST OF THREE"

```
echo "======""
echo "Enter first number"
read a
echo "Enter second number"
read b
echo "Enter third number"
read c
if [$a -gt $b]; then
if [$a -gt $c]; then
echo "$a is big"
else
echo "$c is big"
fi
elif [$b -gt $c];then
echo "$b is big"
else
echo "$c is big"
fi
```



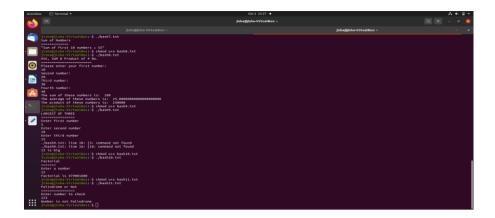
11. Write a shell program to find factorial of given number.

#!/bin/bash echo "Factorial"



12. Write a shell program to check a number is palindrome or not.

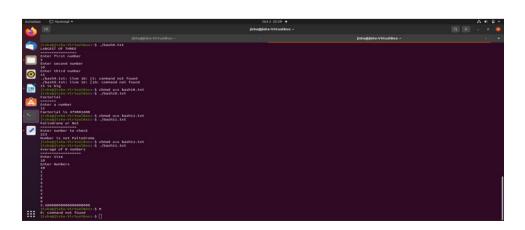
```
#!/bin/bash
echo "Palindrome or Not"
echo "========="
echo "Enter number to check"
read n
rev=$(echo $n | rev)
if [ $n -eq $rev ]; then
echo "Number is Palindrome"
else
echo "Number is not Palindrome"
fi
```



13. Write a shell script to find the average of the numbers entered in command

line.

```
#!/bin/bash
echo "Average of N numbers"
echo "======
echo "Enter Size"
read n
i=1
sum=0
echo "Enter Numbers"
while [$i -le $n]
do
 read num
 sum=$((sum + num))
 i=\$((i+1))
done
avg=\$(echo \$sum / \$n | bc -l)
echo $avg
```



14. Write a shell program to find the sum of all the digits in a number.

15. Write a shell Script to check whether given year is leap year or not.

```
#!/bin/bash
echo "LEAP YEAR OR NOT"
echo "=========="
echo "Enter the year"
read y
a=`expr $y % 4`
b=`expr $y % 100`
c=`expr $y % 400`
if [ $a -eq 0 -a $b -ne 0 -o $c -eq 0 ];
then
echo "$y is leap year"
```

else

echo "\$y is not leap year"

fi

