## NETWORKING & SYSTEM ADMINISTRATION LAB

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**Experiment:13**

**AIM:**write a shell script to print the current date and calender

**PROCEDURE:**

```
#!/bin/blash
$date
now=$(date)
echo "$now"
$calender
now1=$(cal)
echo "$now1"
```

**output:**

```
mca@S65:~/Documents/sruthy$ bash calender.sh
Mon May  9 14:20:42 IST 2022
mca@S65:~/Documents/sruthy$ bash calender.sh
Mon May  9 14:22:33 IST 2022
      May 2022
Su Mo Tu We Th Fr Sa
 1  2  3  4  5  6  7
 8  9 10 11 12 13 14
15 16 17 18 19 20 21
22 23 24 25 26 27 28
29 30 31
```

**Experiment:14**

**AIM:**write a shell script to check a number is greater than ,less than or equal to anthor number

**PROCEDURE**:

```
#!/bin/bash
echo "enter first number"
read a
echo "enter the second number"
read b
```

```
if [ $a -gt $b ]
then
echo $a "is greater"
elif [ $a -lt $b ]
then
echo $b "is greater "
else
echo $a "is equal to" $b
fi
```

**output:**

```
mca@S65:~/Documents/sruthy$ bash greater.sh
enter first number
2
enter the second number
2
2 is equal to 2
```

**Experiment:15**

**AIM:**write a shell script to find the sum of first 10 numbers

**PROCEDURE**:

```
#!/bin/blash
i=1
sum2=0
 while [ $i -le 10 ]
do
 sum2=$((sum2+i))
 i=$((i+1))
done
echo "sum of the number  $sum2"
```

**output:**

```
mca@S65:~/Documents/sruthy$ bash sum.sh
sum of the number  55
mca@S65:~/Documents/sruthy$ gedit average.sh
mca@S65:~/Documents/sruthy$ bash sum.sh
sum of the number  55
```

**Experiment:16**

**AIM:**write a shell script to find the sum ,average and product of 4 numbers

**PROCEDURE**:

```
#!/bin/blash
echo "enter the first number"
read num1
echo "enter the second number"
read num2
echo "enter the third number"
read num3
echo "enter the fourth number"
read num4
sum1=$((num1+num2+num3+num4))
echo "sum="$sum1
p=$((num1*num2*num3*num4))
echo "product="$p
a=$((sum1/4| bc -l))
echo "average=" $a
```

**output:**

```
mca@S65:~/Documents/sruthy$ bash average.sh
enter the first number
1
enter the second number
3
enter the third number
2
enter the fourth number
4
sum=10
product=24
average= 2
```

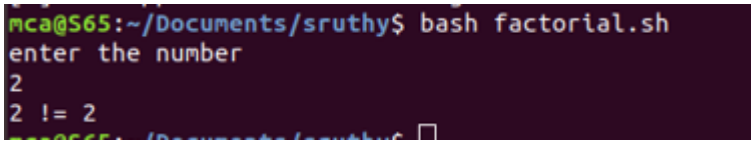
**Experiment:17**

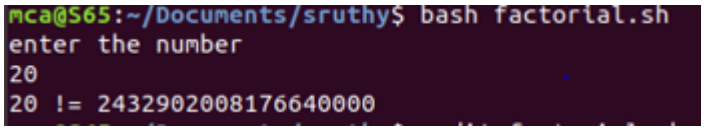
**AIM:**write a shell script to find the factorial

**PROCEDURE**:

```
#!/bin/bash
fact=1
echo "enter the number"
read n
for (( i=2 ; i<=n ; i++ ))
do
fact=`expr $fact \* $i`
done
echo "$n != $fact"
```

**output:**




**Experiment:18**

**AIM:**write a shell script to find the palandrom

**PROCEDURE**:

```
#!/bin/blash
echo "enter the number"
read num
rev=0
n=$num
while [ $num -gt  0 ]
do
a=`expr $num % 10`
rev=`expr $rev \* 10 + $a`
```

```
num=`expr $num / 10`
done
echo $rev
if [ $rev -eq $n ]
then
echo "number is paladrom"
else
echo "num is not palandrom"
fi
```

```
mca@S65:~/Documents/sruthy$ bash palandrom.sh
enter the number
232
232
number is paladrom
```

**Experiment:19**

**AIM:**write a shell script to find the leap year

**PROCEDURE**:

```
echo - "Enter year : "
read y
a = 'expr $y%4'
b = 'expr $y%100'
c = 'expr $y%400'
if [$a -eq 0 -a $b -ne - -o $c -eq 0]
then
echo "$y is leap year"
else
echo "$y is not a leap year"
fi
```

**output:**