### **NETWORKING & SYSTEM ADMINISTRATION LAB**

# **Experiment No: 13**

1. Write a shell script to display current date and Calender.

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#### **Procedure:**

#!/bin/bash

```
echo " Current date is $(date)"
echo " Calender :"
cal
```

# **Output:**

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

#### **Procedure:**

#!/bin/bash

echo "Enter the first number:"

read n1

```
then
echo "The first number is greater than second number"
elif [$n2 -gt $n1]
then
echo "The first number is less than second number"
else
echo "The first number is equal to second number"
```

fi

read n2

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

#### **Procedures:**

#!/bin/bash

echo "The sum of the first 10 numbers are:"

sum=0

```
for (( i=1;i<=10;i++))
do
sum=$((sum+i))
done
echo $sum
```

```
mca@S17:~$ bash sum.sh
The sum of the first 10 numbers are:
55
mca@S17:~$
```

4. Write a shell script to find sum, average and product of 4 numbers.

### **Procedures:**

```
#!/bin/bash

echo "Enter the number1:"
read n1
echo "Enter the number2:"
read n2
echo "Enter the number3:"
read n3
echo "Enter the number4:"
read n4

sum=0
sum=$((n1+n2+n3+n4))
avg=0
avg=$((sum/4))
```

pro=0

```
pro=$((n1 * n2 * n3 * n4))
echo "The sum of the numbers are:" $sum
echo "The average of the numbers are:"$avg
echo "the product of the numbers are:"$pro
```

```
mca@S17:~$ bash num.sh
Enter the number1:
30
Enter the number2:
20
Enter the number3:
40
Enter the number4:
10
The sum of the numbers are: 100
The average of the numbers are:25
the product of the numbers are:240000
mca@S17:~$
```

5. Write shell script to find factorial of a given number.

### **Procedures:**

#!/bin/bash

```
echo "Enter the number:"

read num

fact=1

for(( i=2;i<=num;i++ ))

do

fact=$((fact*i))

done

echo "The factorial is "$fact
```

```
mca@S17:~$ bash fact.sh
Enter the number:
4
The factorial is24
```

6. Write shell script to find the given number is palindrome or not.

### **Procedure:**

```
#!/bin/bash
echo "Enter the number:"
read num
s=0
rev=" "
temp=$num
while [ $num -gt 0 ]
do
s=\$((\$num\%10))
num = \$((num/10))
rev=$(echo ${rev}${s})
done
if [ $temp -eq $rev ]
then
echo "The number is palindrome"
else
echo "The number is not palindrome"
fi
```

```
mca@S17:~$ bash pal.sh
Enter the number:
454
The number is palindrome
mca@S17:~$ bash pal.sh
Enter the number:
123
The number is not palindrome
mca@S17:~$ \[
```

7. Write a shell script to find given year leap year or not.

### **Procedure:**

#!/bin/bash

fi

```
echo "Enter the year:"
read year
if [ $((year % 4)) -eq 0 ]
 if [ $((year % 100)) -eq 0 ]
  then
  if [ $((year % 400)) -eq 0 ]
      then
     echo "its a leap year"
  else
       echo "its not a leap year"
  fi
 else
 echo "Its not a leap year"
 fi
else
echo "its not a leap year"
```

```
mca@S17:~$ bash leap.sh
Enter the year:
2000
its a leap year
mca@S17:~$ bash leap.sh
Enter the year:
1900
its not a leap year
mca@S17:~$ [
```