**Experiment 14 Date:** 19/06/2023

#### Aim:

Familiarization of Linux Commands

## **Course Outcome(CO4):**

Write shell scripts required for system administration

## **Procedure:**

```
#!/bin/bash

fruit="apple"
case "$fruit" in
    "banana") echo "i like banana";;
    "orange") echo "i like orange";;
    "apple") echo "i like apple";;
```

Esac

**Experiment 15 Date:** 19/06/2023

#### Aim:

Familiarization of Linux Commands

#### **Course Outcome(CO4):**

Write shell scripts required for system administration

#### **Procedure:**

Write a shell script to display the capital of a state using case...esac statement :

#!/bin/bash

```
kerala="Trivandram"
case "$kerala" in
"Kottayam") echo "capital is Kottayam";;
"Trivandram") echo "capital is Trivandram";;
"Edukki") echo "capital is Edukki";;
```

Esac

```
student@u31:~/Desktop/shon$ chmod +x state.sh
student@u31:~/Desktop/shon$ ./state.sh
capital is Trivandram
student@u31:~/Desktop/shon$
```

**Experiment 16 Date:** 19/06/2023

#### Aim:

Familiarization of Linux Commands

#### **Course Outcome(CO4):**

Write shell scripts required for system administration

#### **Procedure:**

Write a shell script to display color in Rainbow

```
#!/bin/bash
```

read -p "Enter the letter of color in Rainbow: " color

```
case "$color" in

"v")echo "color is Violet";;

"i")echo "color is Indigo";;

"b")echo "color is Blue";;

"g")echo "color is Greeen";;

"y")echo "color is Yellow";;

"o")echo "color is Orange";;

"r")echo "color is Red";;

*)echo "not in VIBGYOR";;
```

esac

```
student@u31:~/Desktop/shon$ ./color.sh
Enter the letter of color in Rainbow r
color is Red
student@u31:~/Desktop/shon$
```

## Looping statements in Shell Scripting:

**Experiment 17 Date:** 19/06/2023

#### Aim:

Familiarization of Linux Commands

## **Course Outcome(CO4):**

Write shell scripts required for system administration

## **Procedure:**

Write a shell script to Print Numbers upto 10 using while loop

```
#!/bin/bash

a=0

while [ $a -lt 10 ]

do
   echo $a
   a=`expr $a + 1`

done
```

```
student@u31:~/Desktop/shon$ ./numLimit.sh
0
1
2
3
4
5
6
7
8
9
```

**Experiment 18 Date:** 19/06/2023

## Aim:

Familiarization of Linux Commands

## **Course Outcome(CO4):**

Write shell scripts required for system administration

## **Procedure:**

Write a shell script to Print Numbers in reverse order from 10

```
#!/bin/bash
a=10
while [$a -gt 0] (lessthan = It //greaterthan or equal to = ge //lessthan or equell to = le)
do
    echo $a
    ((a-))
done
```

```
student@u31:~/Desktop/shon$ ./numLimit.sh

10
9
8
7
6
5
4
3
2
1
```

**Experiment 19 Date:** 19/06/2023

## Aim:

Familiarization of Linux Commands

## **Course Outcome(CO4):**

Write shell scripts required for system administration

## **Procedure:**

Write a shell script to check a num is palindrome or not

```
#!/bin/bash
num=0
read -p "Enter the number: " num
rev=0
temp=num
rem=0
while [ $num != 0 ]
do
      ((rem=num%10))
      ((rev=rev*10+rem))
      ((num=num/10))
done
if [ $rev == $temp ]
then
      echo "Its a palindrome"
else
      echo "Its not a palindrome"
      echo $rev
```

# For loop

\_\_\_\_\_

# **Question:**

# 27: For loop with break();

```
#!/bin/bash

for ((i=10;i>=0;i--))

do

    if [ $i == 5 ]
    then
        break
    fi
    echo "$i"

done
```

```
mca@u31:~/Desktop/shon$ vi break.sh
mca@u31:~/Desktop/shon$ chmod +x break.sh
mca@u31:~/Desktop/shon$ ./break.sh
10
9
8
7
6
```

# 28: Display colors using for loop

```
#!/bin/bash
for i in "Blue" "Black" "Orange" "Yellow"
do
    echo "$i"
done
```

```
mca@u31:~/Desktop/shon$ ./color.sh
Blue
Black
Orange
Yellow
mca@u31:~/Desktop/shon$
```

# 29 : Display num upto 10

```
#!/bin/bash

for ((i=0;i<=10;i++))
do

echo "$i"
```

done

```
mca@u31:~/Desktop/shon$ ./forloop.sh
0
1
2
3
4
5
6
7
8
9
10
mca@u31:~/Desktop/shon$ S
```

# 30: Count num in reverse order

```
#!/bin/bash

for i in {10..1}
do

echo "$i"

done

OR

#!/bin/bash

for ((i=10;i>=0;i--))
do

echo "$i"

done
```

```
mca@u31:~/Desktop/shon$ ./forloop.sh
10
9
8
7
6
5
4
3
2
1
```

Continues —>

# Until 👍

```
Syntax:
Until <condition>
do
<command 1>
<command 2>
```

# 37. Write a shell script to display number from 2 to 15 using until loop

```
#!/bin/bash
a
i=2;
until [ $i -gt 15 ];
do
echo "$i"
i=$(( i + 1 ))
done
```

done

```
mca@u31:~/Desktop/shon$ ./until.sh
2
3
4
5
6
7
8
9
10
11
12
13
14
15
```

## **Function:**

```
#!/bin/bash

hello(){
    echo "hello world"
    }

hello;

mca@u31:~/Desktop/shon$ ./fun.sh
hello world
```

# Question

# 31:shell script to check the number is palindrome or not

else

echo "Its not a palindrome" echo \$rev

Fi

32:shell script to check whether a given number is Amstrong or Not

33:shell script to check whether a number is prime or not

34:shell script for factorial of NUMBER

35:shell script to print Fibonacci series

36:shell script to check if the current year is leap yeat or not