**Experiment 9 Date: 28/03/2023**

**Aim:**

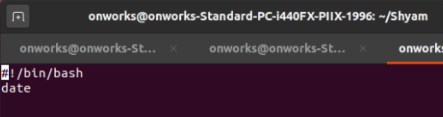
Familiarization of Linux Commands

**CO :**

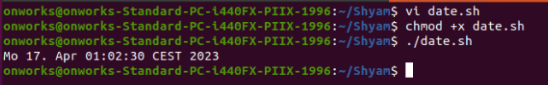
Write shell scripts required for system administration

**Procedure:**

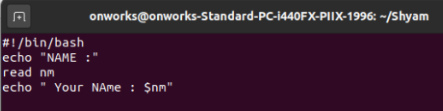
1. **Shell script to display date**



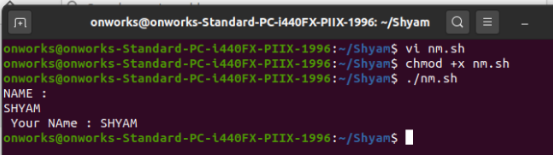
**Output**



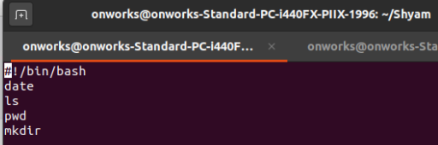
1. **Shell script to display your name:**



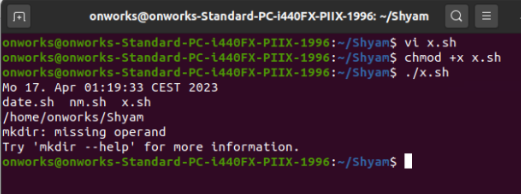
Output:



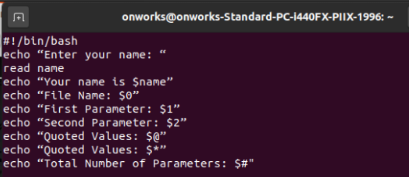
1. **Multiple Commands (ls, pwd, date, mkdir) in Shell Script**:



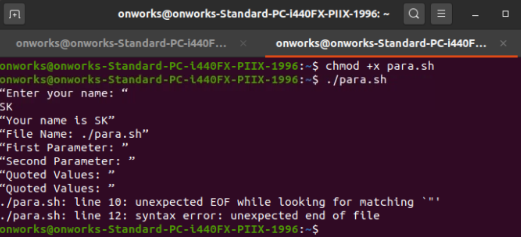
Output:



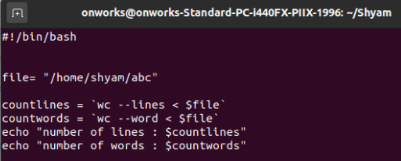
1. **Shell script to demonstrate variables**



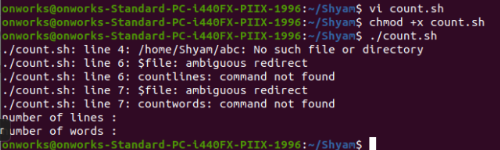
Output:



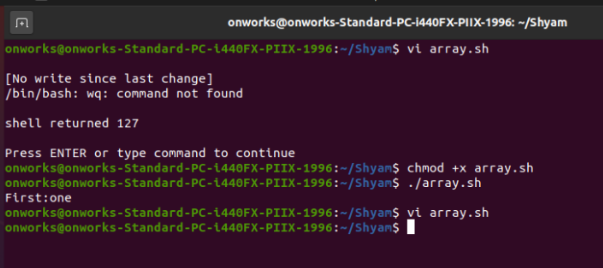
1. **Shell script to count lines and words in a file**



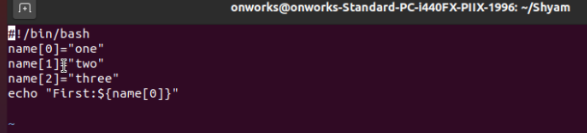
Output:



1. **Shell script to display array index**



Output:



**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

**Experiment 10 Date: 03/04/2023**

**Aim:**

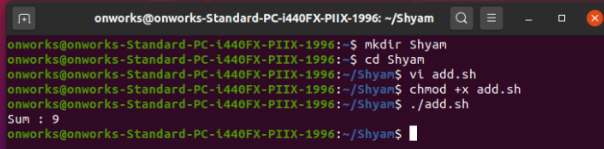
Familiarization of Linux Commands

**CO4:**

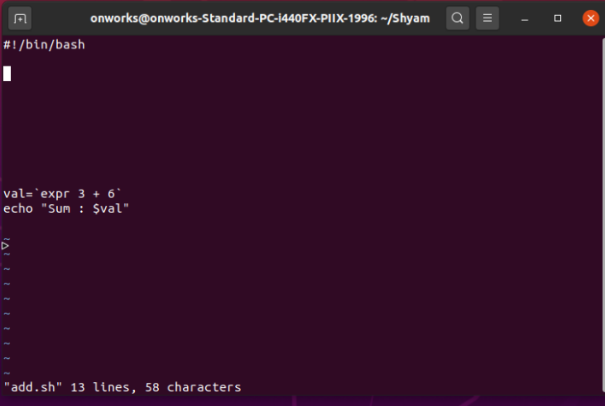
Write shell scripts required for system administration

**Procedure:**

1. Shell script to add two number:



Output:



1. Write a shell script to initialize two numeric variables. Then perform addition operation on both values and store the result in the third variable.

vi filename.sh Press ‘i’ to INSERT #!/bin/bash

read -p "Enter first number " num1

read -p "Enter second number " num2

sum=$(($num1 + $num2))

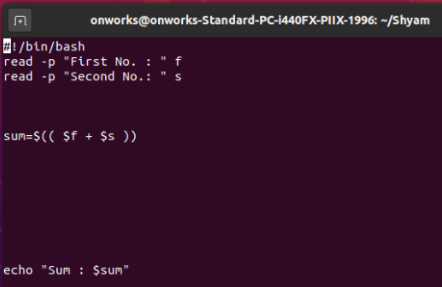
echo "sum is: $sum"Press ‘Esc’ to end INSERT

:wq!

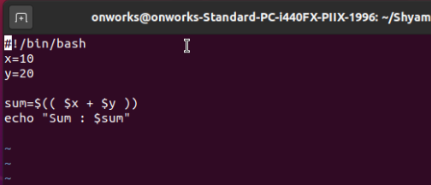
chmod +x filename.sh

./filename.sh

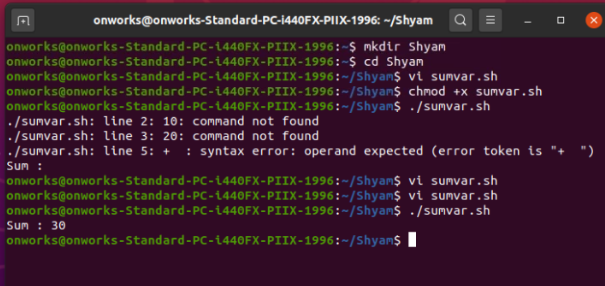
Output:



3.Shell script to read two numbers as command line parameters and perform the addition operation



Output:



1. Shell script to demonstrate Arithmetic operators (addition, subtraction, multiplication, division, modulus, increment, decrement) by taking user input and store to another variable

vi filename.sh Press ‘i’ to INSERT

#!/bin/bash

read -p "Enter the First number: " num1

read -p "Enter the Second number: " num2

sum=$(( $num1 + $num2 ))

prd=$(( $num1 \* $num2 ))

diff=$(( $num1 - $num2 ))

quo=$(( $num1 / $num2 ))

rem=$(( $num1 % $num2 ))

echo "Sum : $sum"

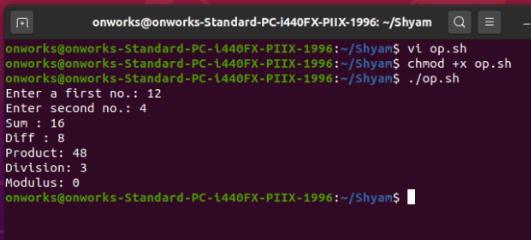
echo "Diff : $diff"

echo "Product : $prd"

echo "Division : $quo"

echo "Modulus : $rem"

Output:



**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

**Experiment 10 Date: 04/04/2023**

**Aim:**

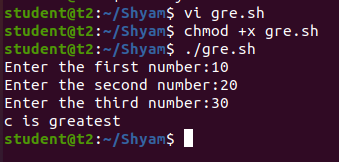
Familiarization of Linux Commands

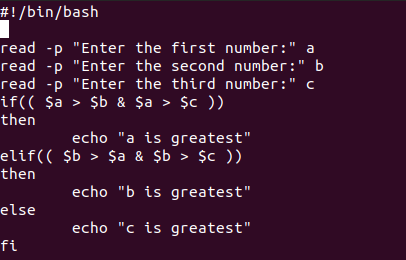
**CO4:**

Write shell scripts required for system administration

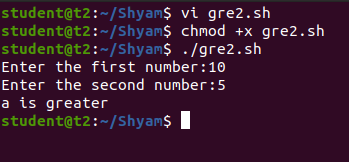
**Procedure:**

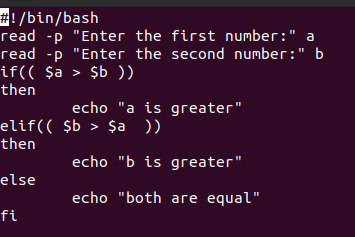
**1. To find the greatest among three numbers**

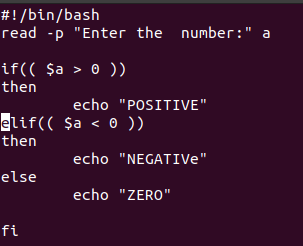
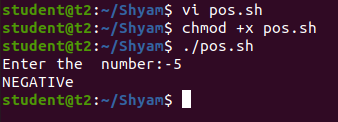
****

****

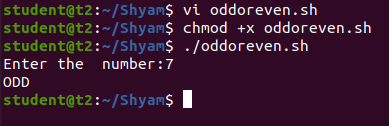
**2. To find the greatest between two numbers**

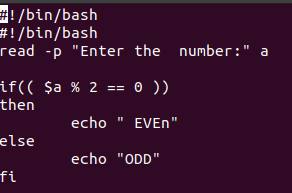
****

****

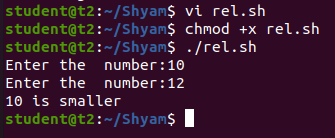
**3. To check whether a number is positive,negative or zero**

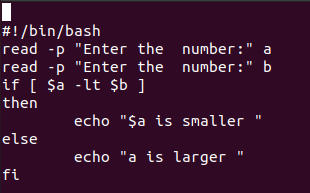
**4. To check whether a number is odd or even**

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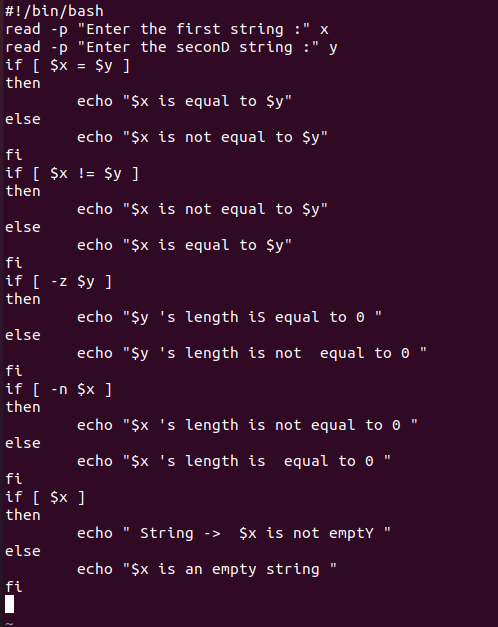
**5. To demonstrate relational operators**

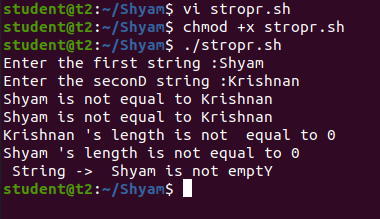
****

****

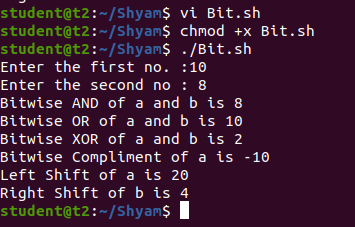
**6. To demonstrate logical operators**

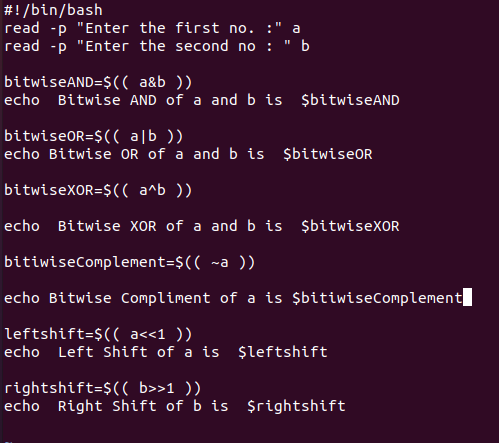
**7. Shell Script to demonstrate String Operations**

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**8. Shell Script to demonstrate Bitwise operators**

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**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

**Experiment 11 Date: 03/04/2023**

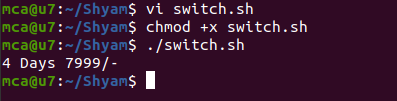
**Aim:**

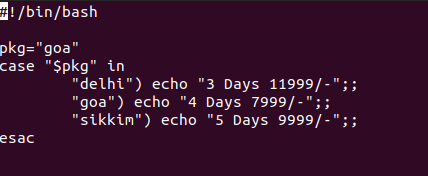
Familiarization of Linux Commands

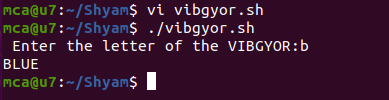
**CO4:**

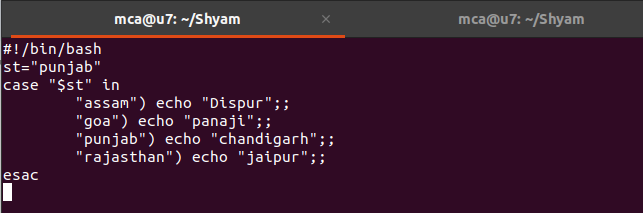
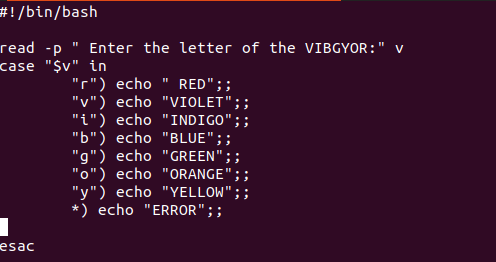
Write shell scripts required for system administration

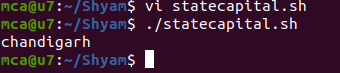
**Procedure:**

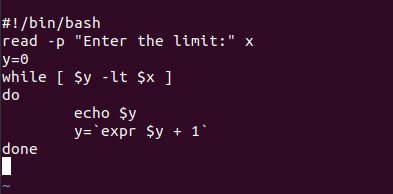


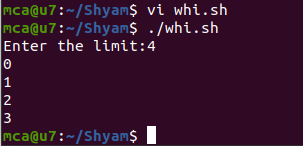


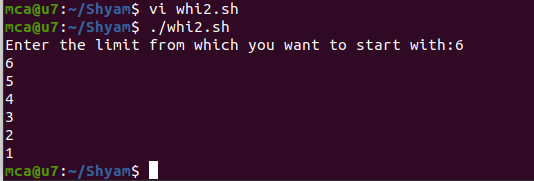


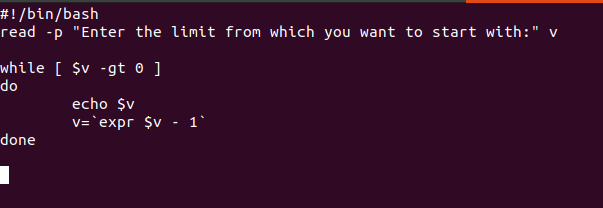












**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

**Experiment 12 Date: 03/04/2023**

**Aim:**

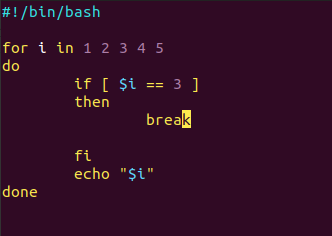
Familiarization of Linux Commands

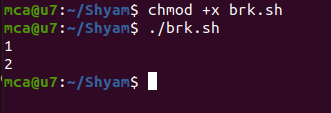
**CO4:**

Write shell scripts required for system administration

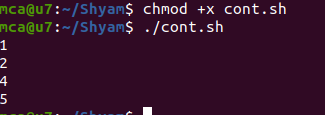
**Procedure:**

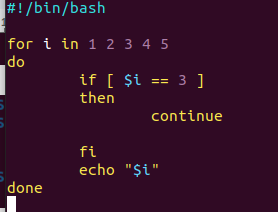
Implement For loop using Break statement



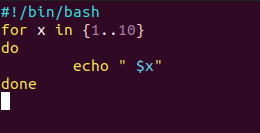


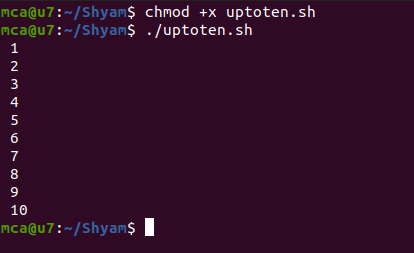
Implement For loop using Continue statement



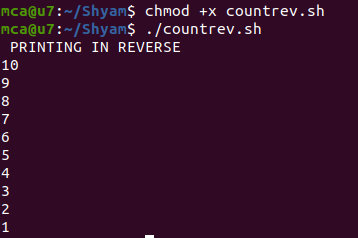


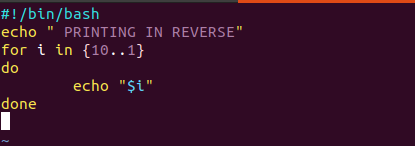
Display numbers upto 10



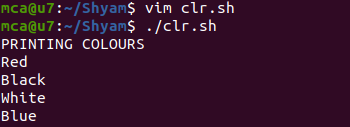


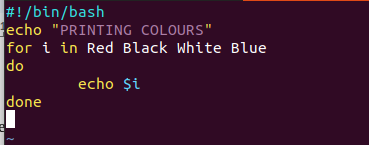
Display numbers upto 10 in reverse





Display colours





**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

**Experiment 11 Date: 03/04/2023**

**Aim:**

Familiarization of Linux Commands

**CO4:**

Write shell scripts required for system administration

**Procedure:**

**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.

**Experiment 11 Date: 03/04/2023**

**Aim:**

Familiarization of Linux Commands

**CO4:**

Write shell scripts required for system administration

**Procedure:**

**Result**

The program was executed and the result was successfully obtained. Thus CO4 was obtained.