**Experiment No.: 3 Date -06-03-2023**

**Aim**

Familiarisation of Linux Commands

**CO2**

Perform System Aministration tasks

**Procedure**

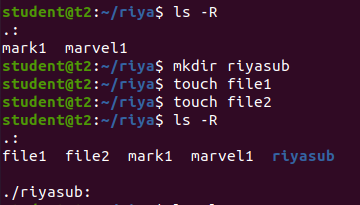
$pwd



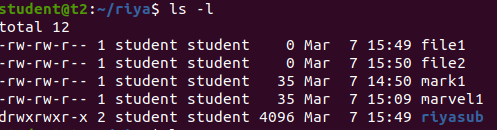
$ls



$ls -R



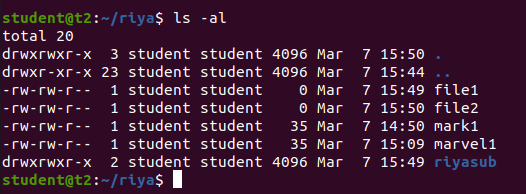
$ls -l



$ls -a



$ls -al



$ls -t



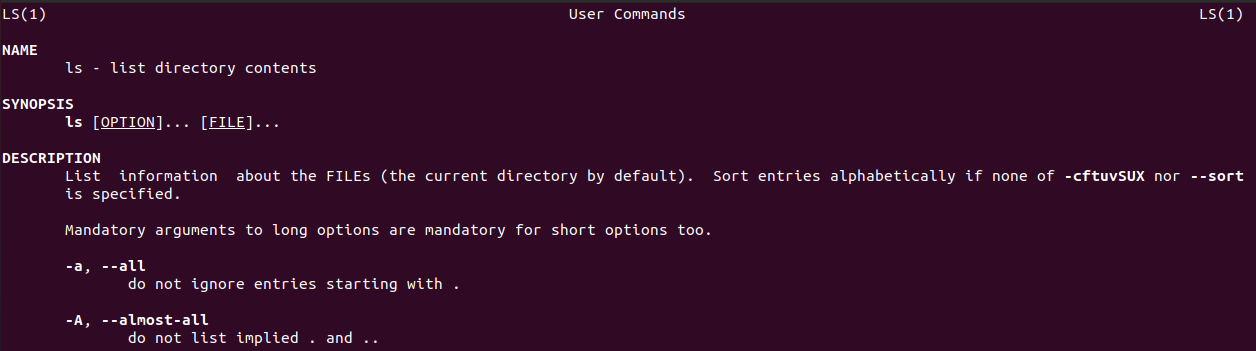
$ls -r



$history



**$ man ls**



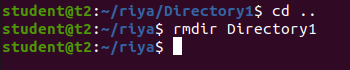
**$mkdir directoryname**



**$ cd ..**



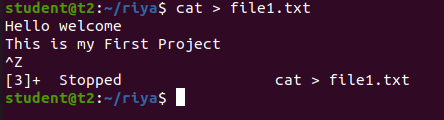
**$ rmdir**



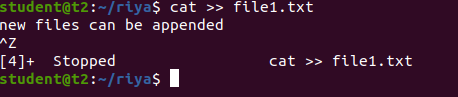
**$touch filename**



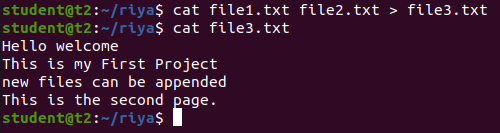
**$cat > file1.txt**



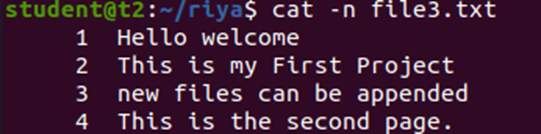
**$cat >> file1.txt**



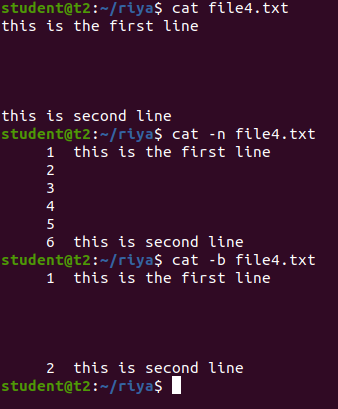
**$cat file1.txt file2.txt > file3.txt**



**$cat -n file3.txt**

****

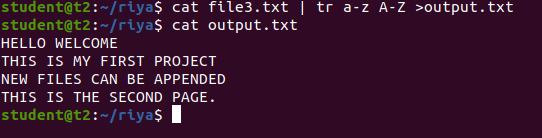
**$cat -b file4.txt**



**$cat -e file2.txt**



**$cat c.txt | tr a-z A-Z > output.txt**



**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.

**Experiment No.: 4 Date -07-03-2023**

**Aim**

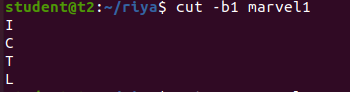
Familiarisation of Linux Commands

**CO2**

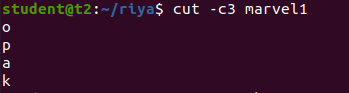
Perform System Aministration tasks

**Procedure**

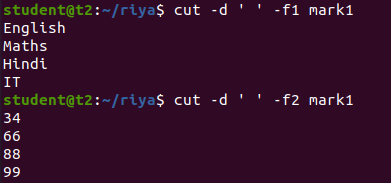
$cut -b1 filename



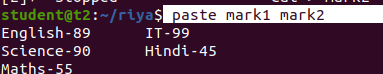
$cut -c3 filename



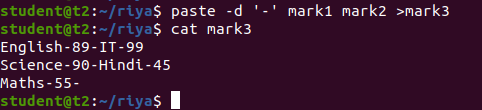
$cut -d ‘ ‘ -f1 filename



$paste mark1 mark2



$paste -d ‘-’ mark1 mark2 > mark3

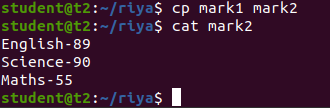


$paste -s mark1



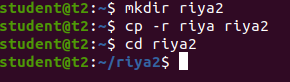
$cp mark1 mark2

(content in mark1 is overwritten in mark2)



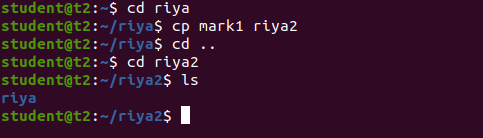
$cp -r riya riya2

(to copy the directory along with its sub directories)



$cp filename directoryname

(to copy file from one directory to another directory)



**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.

**Experiment No.: 5 Date -13-03-2023**

**Aim**

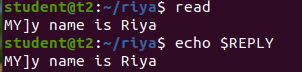
Familiarisation of Linux Commands

**CO2**

Perform System Aministration tasks

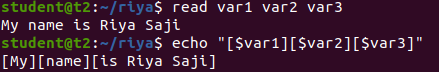
**Procedure**

$read and echo

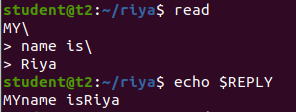
****

$read var1 var2 var3

(raeding the contents to 3 diffrent variables var1 var2 var3)

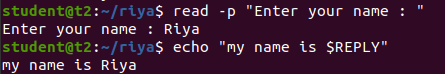
****

$read (the contents for multiple lines with \ at the end of each line)

****

$read -p

(for prompt text from user)

****

$read - n6

(specifying the limit for the content to read)

****

****

$read -s

(security)

and $echo $REPLY (to display the password)

****

$wc filename

****

$wc -l filename

****

$wc -m filename

****

$wc -c filename

****

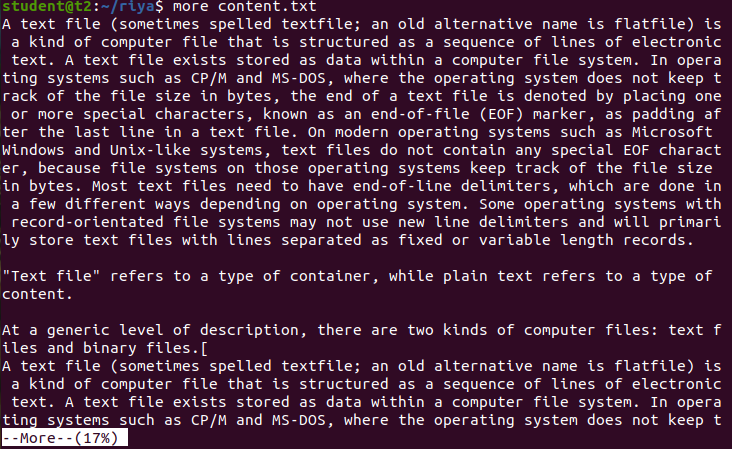
$wc -w filename

****

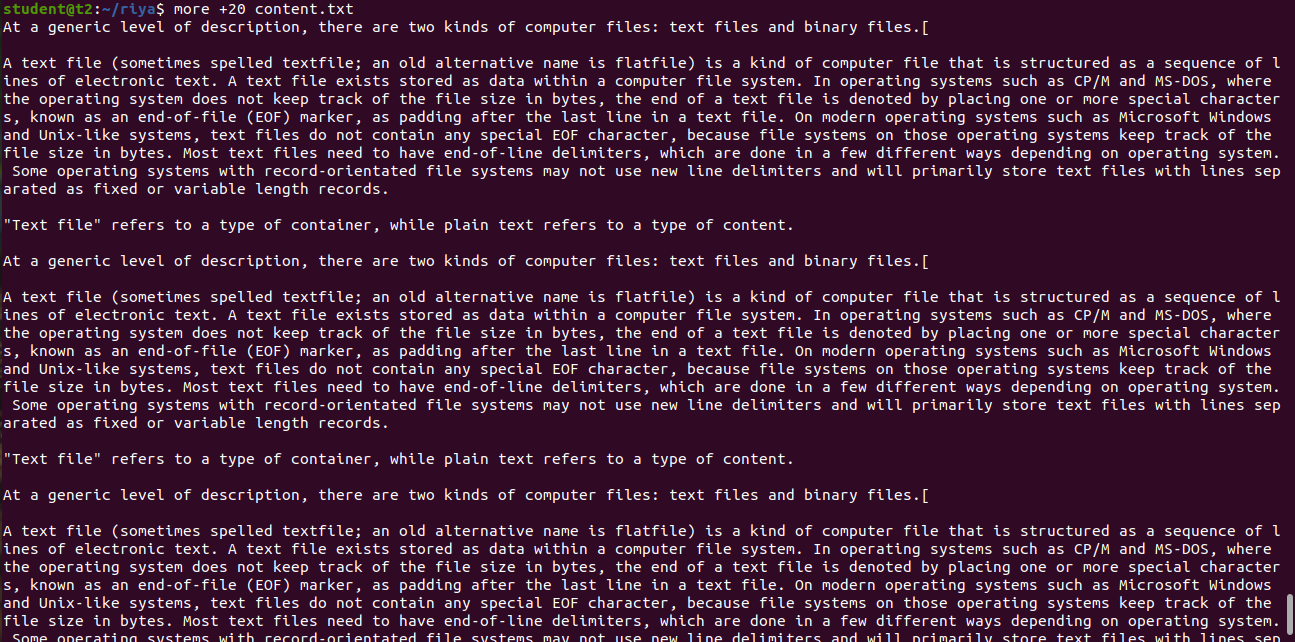
$wc -L filename

****

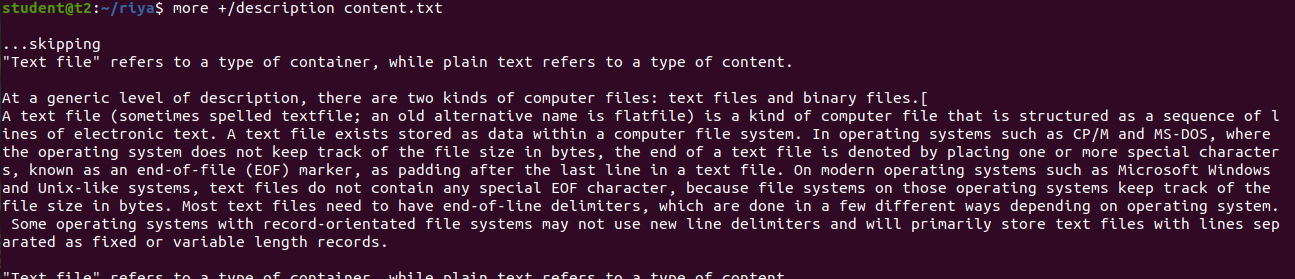
$more content.txt

****

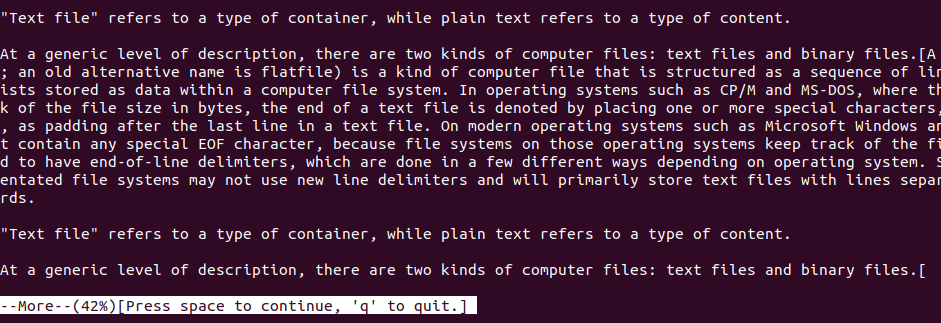
$more +20 content.txt

****

$more +/pattern filename

****

$more -d filename

****

**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.

**Experiment No.: 6 Date -14-03-2023**

**Aim**

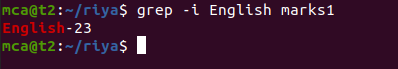
Familiarisation of Linux Commands

**CO2**

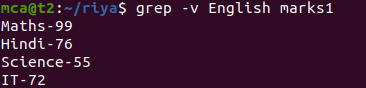
Perform System Aministration tasks

**Procedure**

$grep -i searchword filename

****

$grep -v searchword filename

****

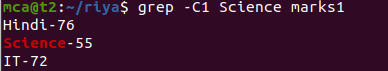
$grep -A1 searchword filename

****

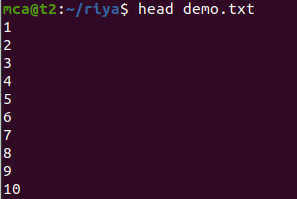
$grep -B1 searchword filename

****

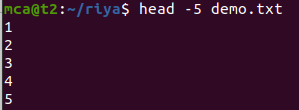
$grep -C1 searchword filename

****

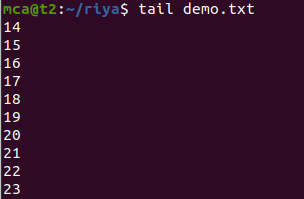
$head filename

****

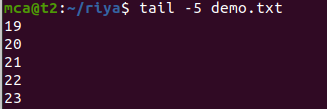
$head -5 filename

****

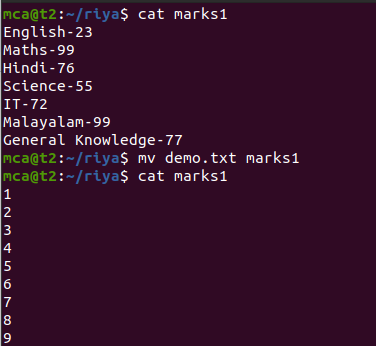
$tail filename

****

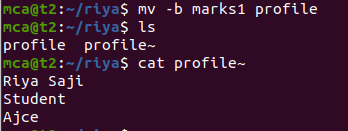
$tail -5 filename

****

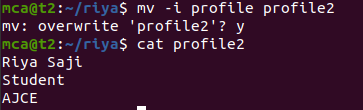
$mv filename filename2



$mv -b filename filename2



$mv -i filename filename2



**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.

**Experiment No.: 7 Date -20-03-2023**

**Aim**

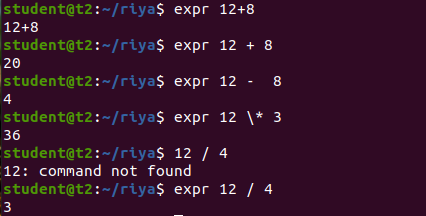
Familiarisation of Linux Commands

**CO2**

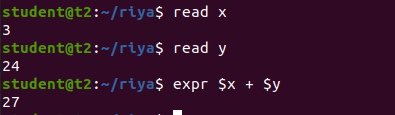
Perform System Aministration tasks

**Procedure**

$expr 12+8

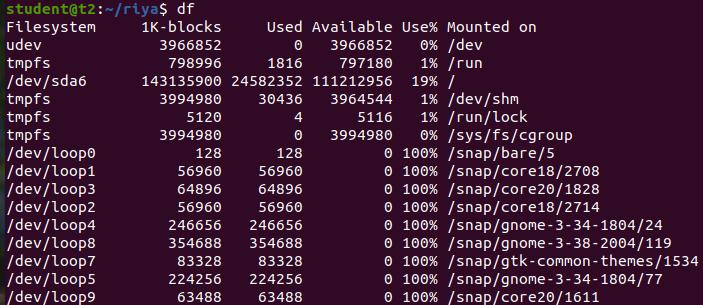
****

$expr and read

****

$df

(to check how much space a file or directory takes in current directory)

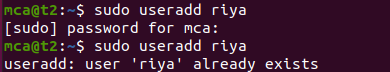
****

$du filename

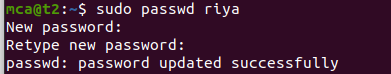
(is used to check how much space a file or directory takes in current directory )

****

$sudo useradd newusername

****

$sudo passwd username

****

$sudo groupadd -g identifier groupname

****

$sudo usermod -G groupname username

****

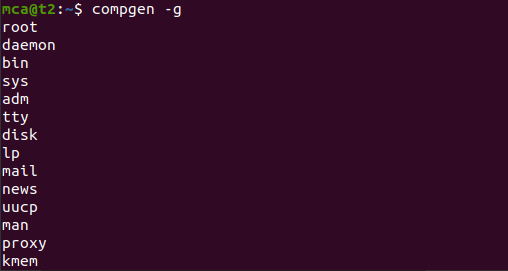
$id username

(used to find out groupname & numeric id for the user)

****

$compgen -g

(displays all the existing groups)

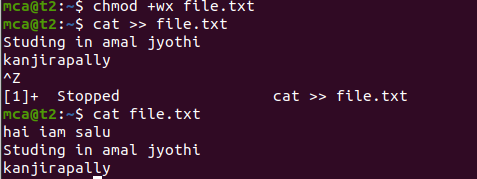
****

$chmod -wx filename

(to change the mode of permission, here writing and execution permission is denied)

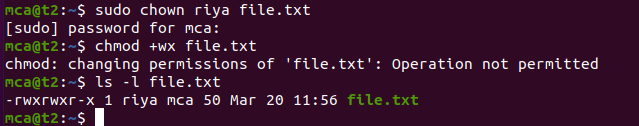
****

(here writing and execution permission is granted

****

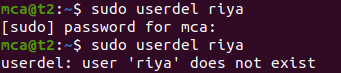
$sudo chown username filename

(to change a file owner or directory ownership for a user or the group)

****

$sudo userdel username

(to delete the user)

****

$sudo groupdel groupname

(to delete the group)

****

**Result**

The program was executed and the result was successfully obtained. Thus CO2 was obtained.

**Experiment No.:8 Date -21-03-2023**

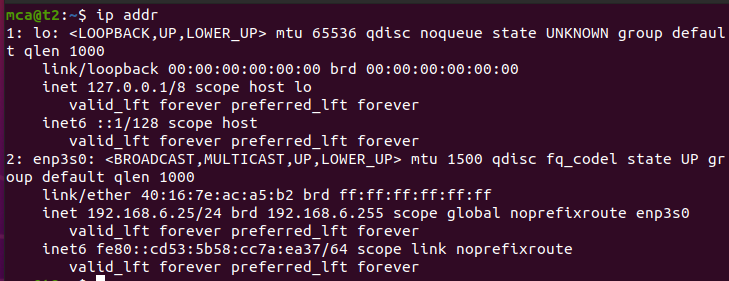
**Aim**

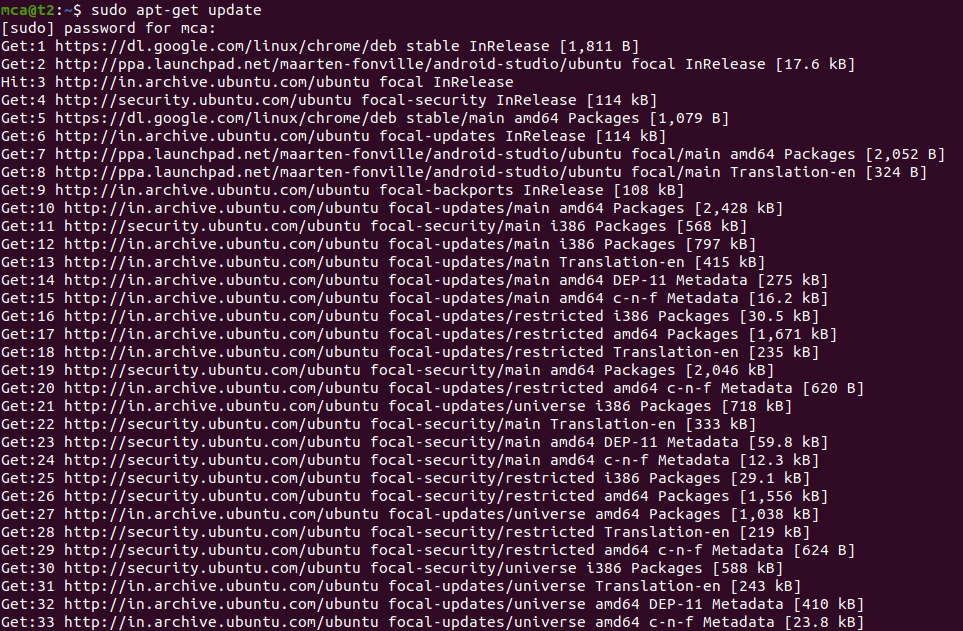
Familiarisation of Linux Commands

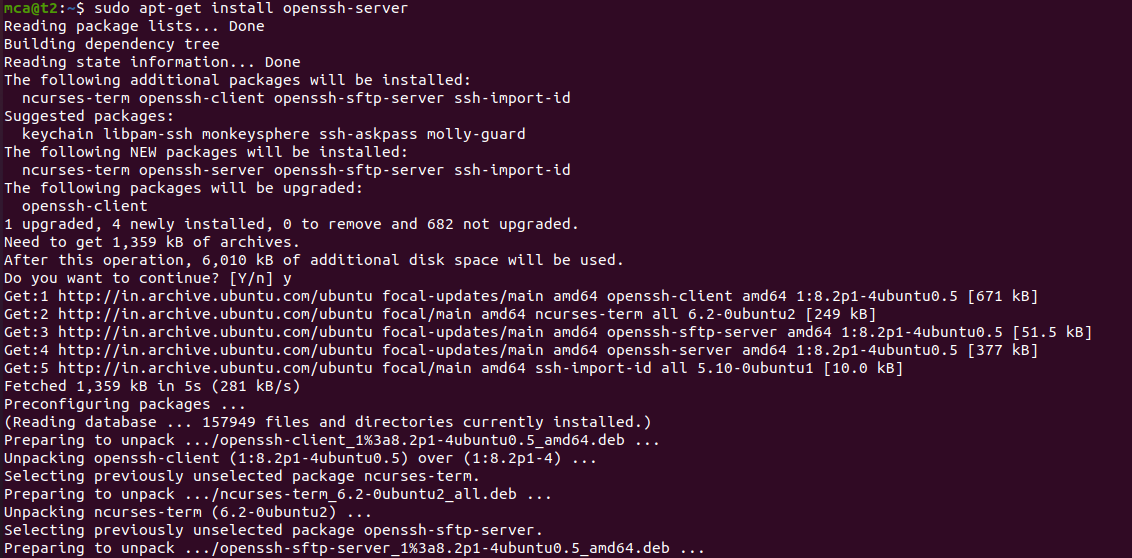
**CO2**

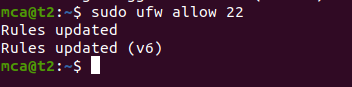
Perform System Aministration tasks

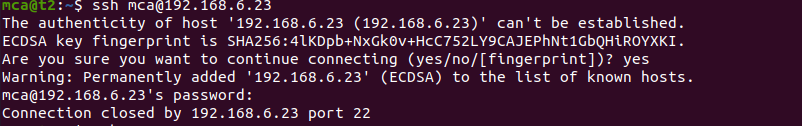
**Procedure**

****

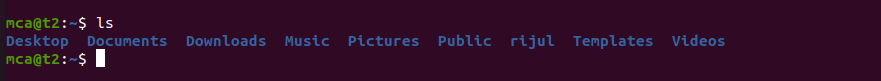
****

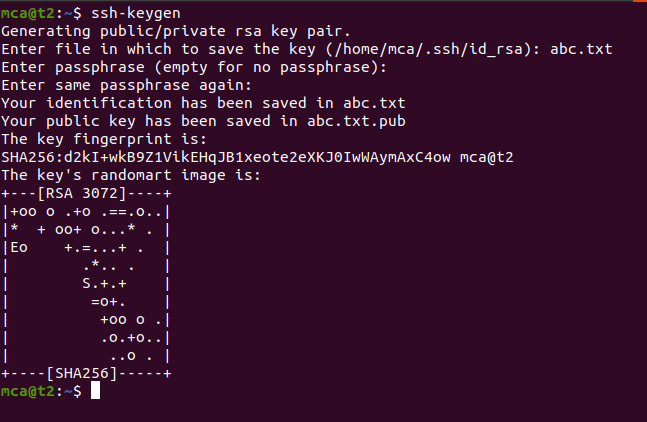
****

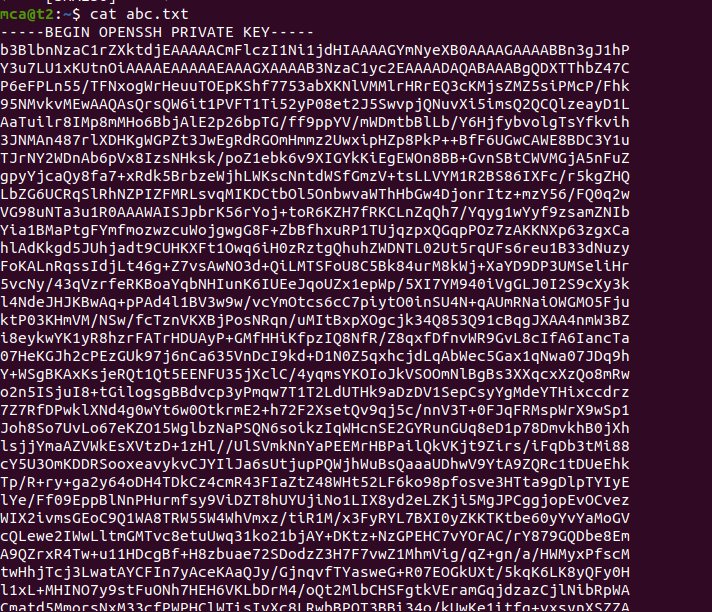
****

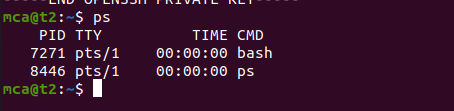
****

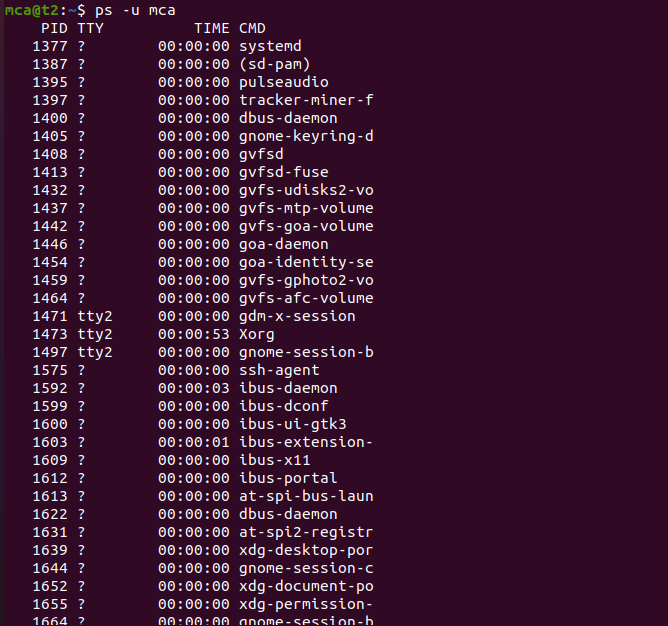
****

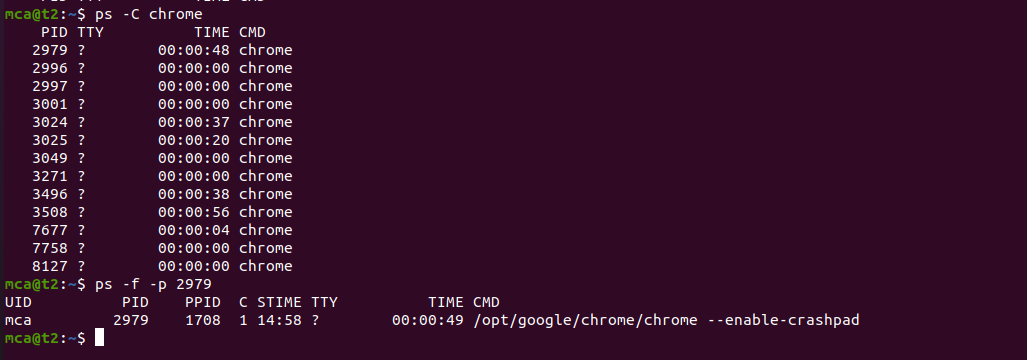
****

****

****

****

****

****

**Result**

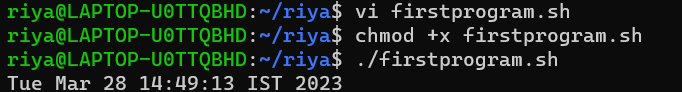
The program was executed and the result was successfully obtained. Thus CO2 was obtained.

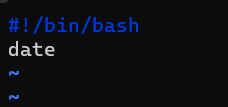
**Experiment 9 28-03-2023**

**Aim : Shell scripting**

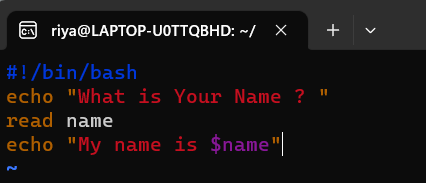
**Procedure**

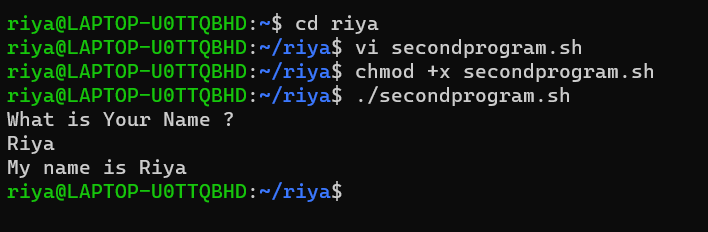
**1.Shell Script to display the date**

****

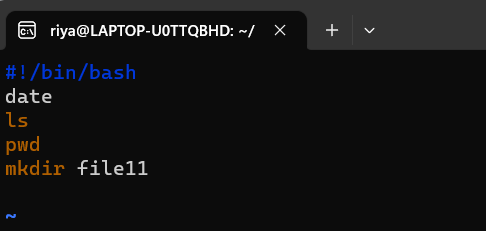
****

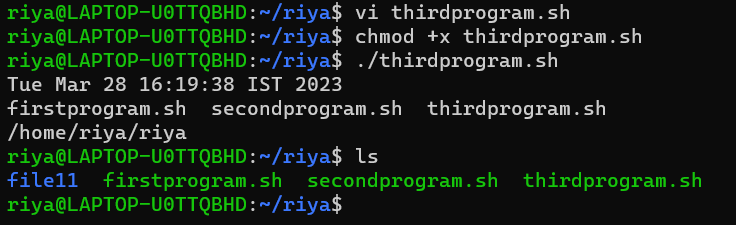
**2.Shell Script to display your name**

****

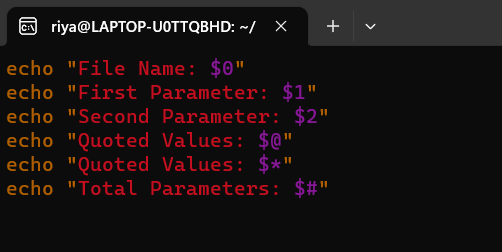
****

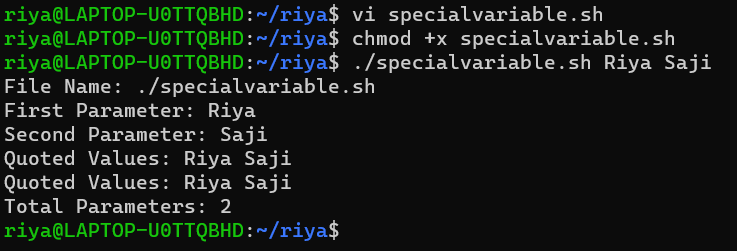
**3.Shell Script to display date , pwd , ls(multiple commands)**

****

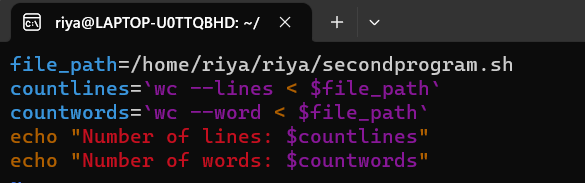
****

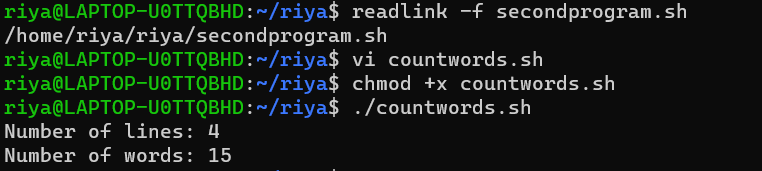
**4.Shell Script to demonstrate special variables**

****

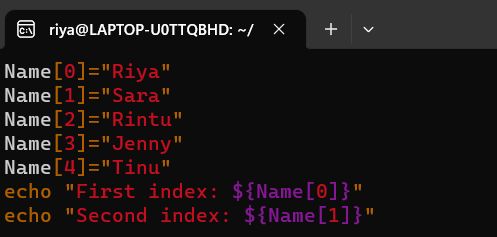
****

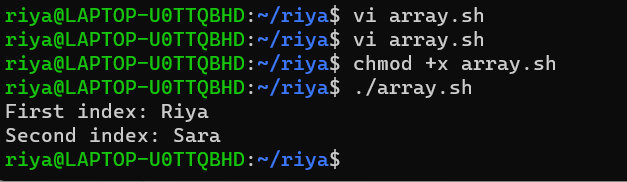
**5.Shell Script to count lines and words of the file**

****

****

**6.Shell Script to display array index**

****

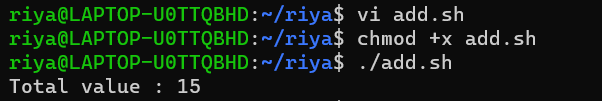
****

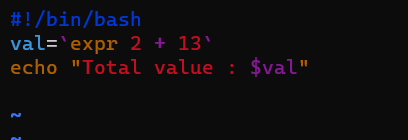
**Experiment 10 03-04-2023**

**Aim : Shell scripting (basic operations)**

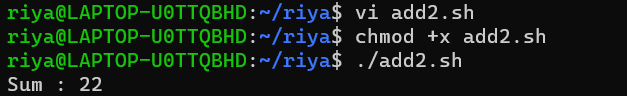
**Procedure**

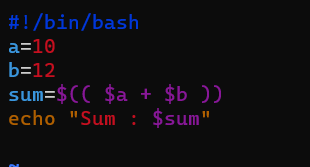
**1.Shell script to add two numbers**

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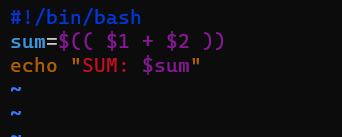
****

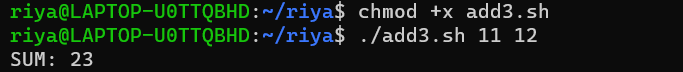
**2.Write an example shell script to intialize two numeric variables . then perform an addition operation on both values and store the result in the third variable**

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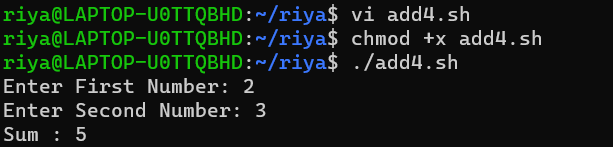
****

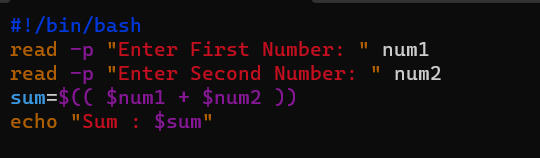
**3. Shell script to read two num,bers as command line parameters and perform the addition operation**

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**4.Shell script which takes input from the user at run time . Then calculate the sum of given numbers and store to variable amd show the result**

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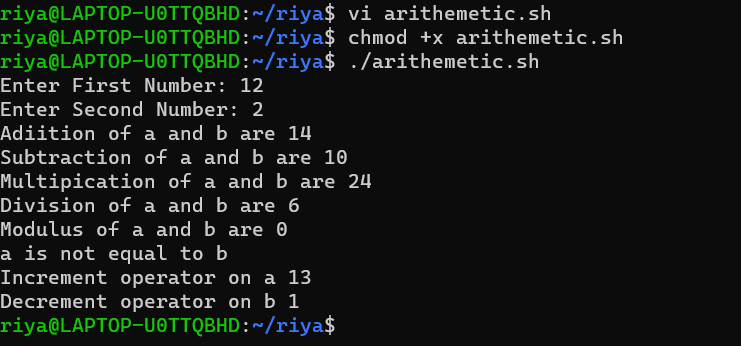
****

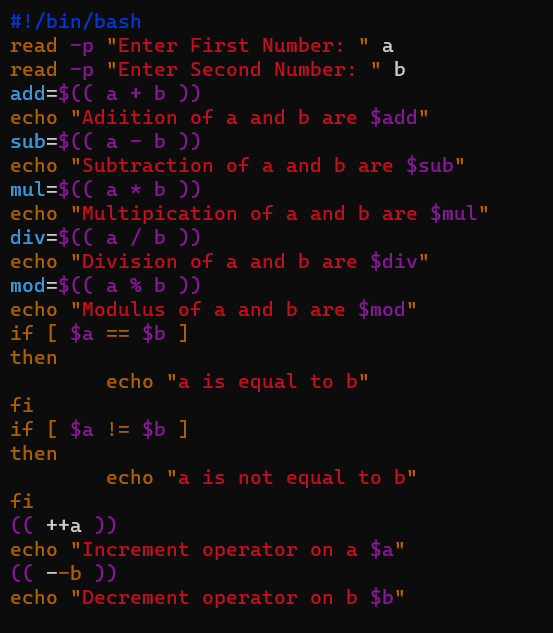
**Experiment 11 04-04-2023**

**Aim : Shell scripting (basic operations)**

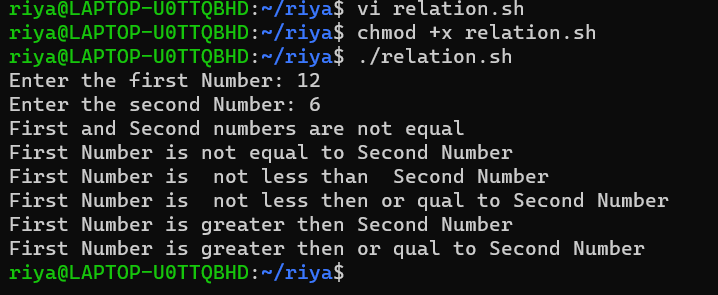
**Procedure**

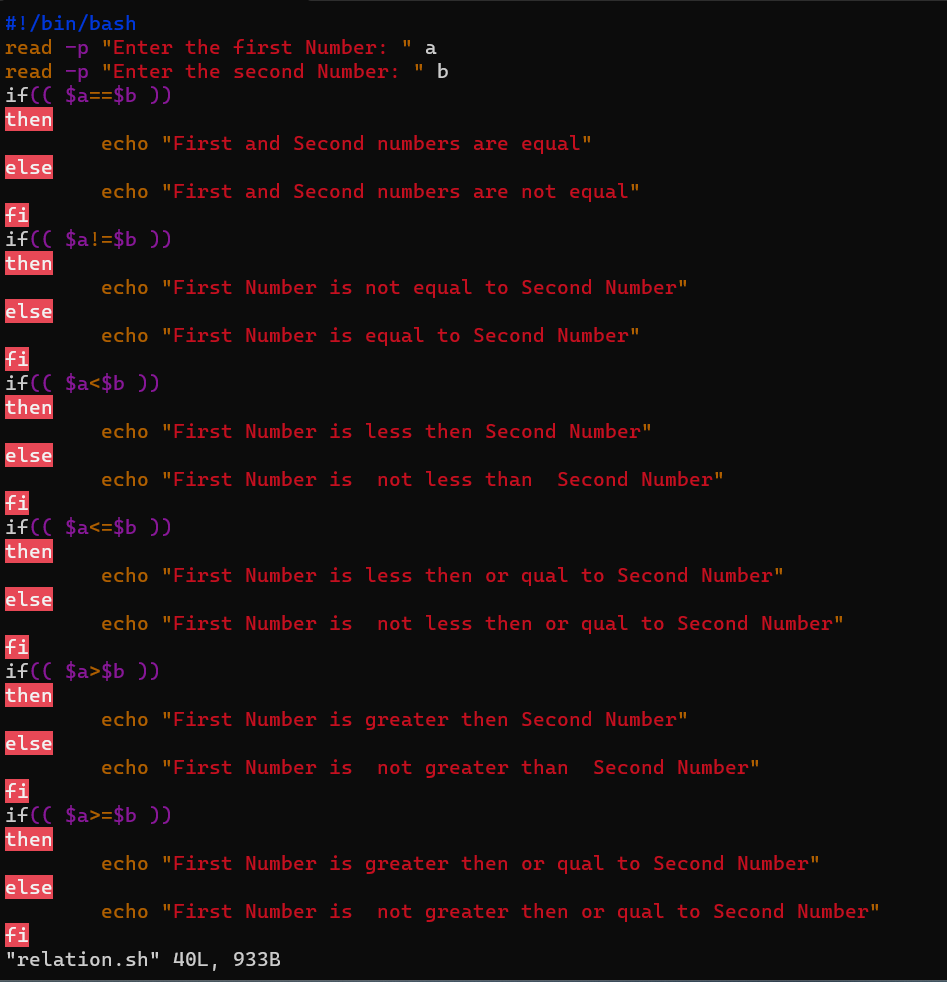
**Shell script to demonstrate arithmetic operations**

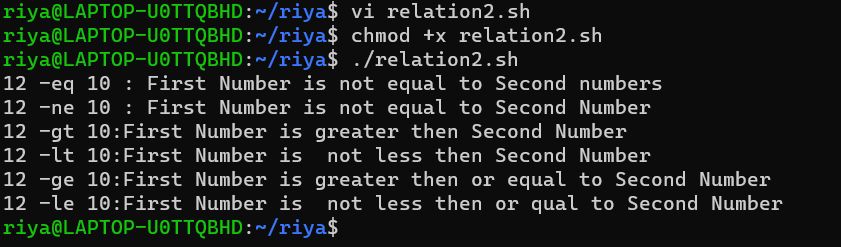
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**Shell script to demonstrate Relational operations**

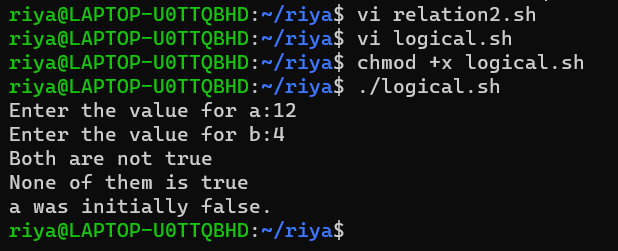
****

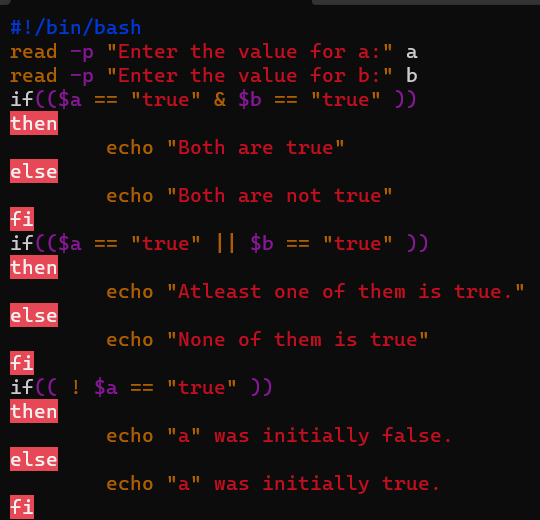
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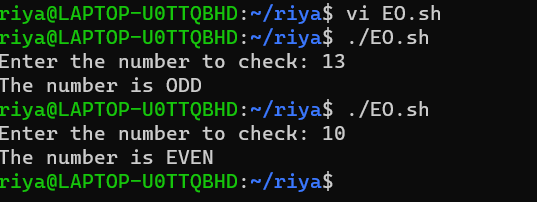
****

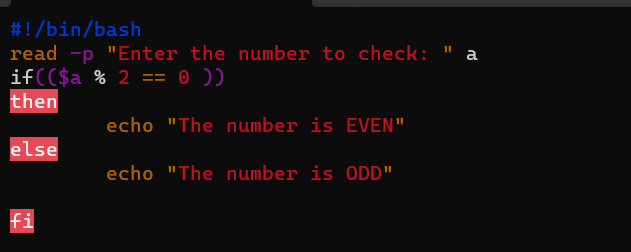
**Shell script to demonstrate Logical operations**

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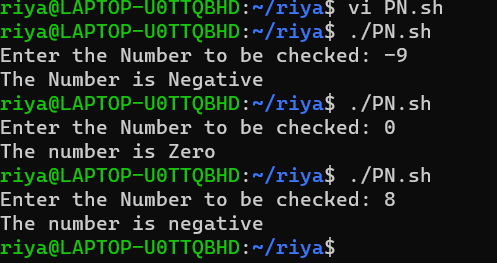
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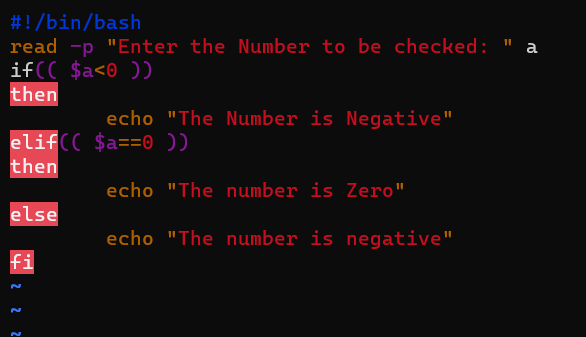
**TO check whether the number is odd or even**

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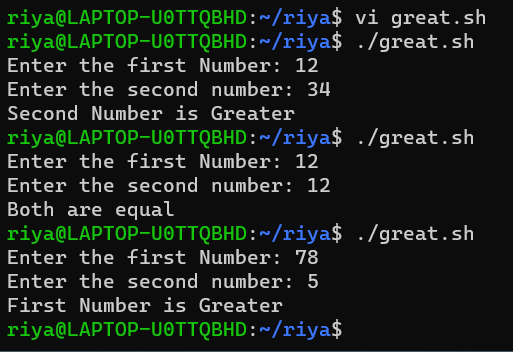
****

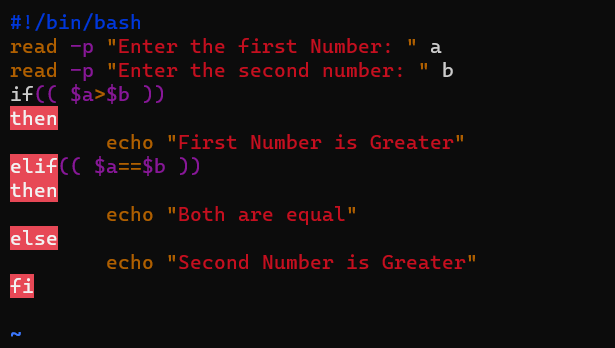
**Write a shell script to Check whether the number is positive or negative**

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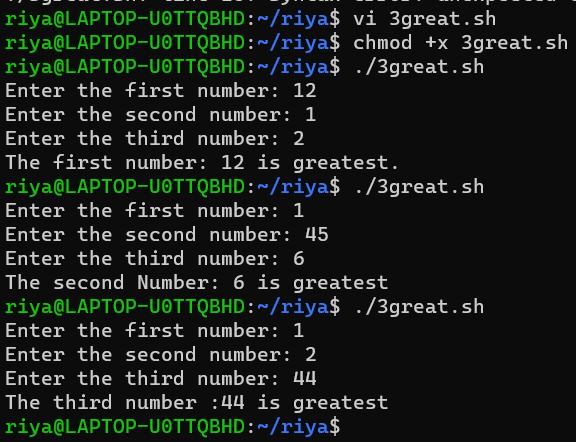
****

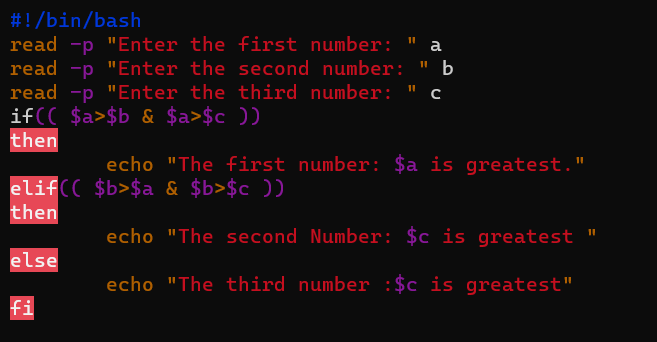
**Write a shell script to find the greatest of two numbers**

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**Write a shell script to find the greatest of THREE numbers**

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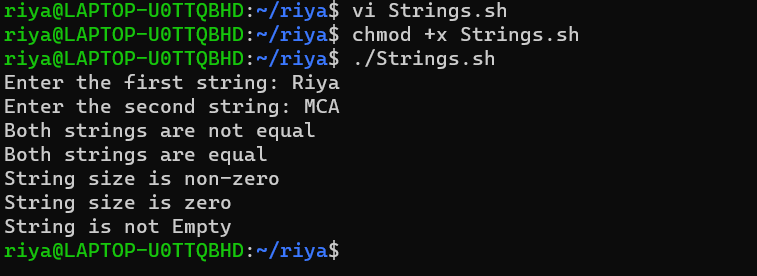
****

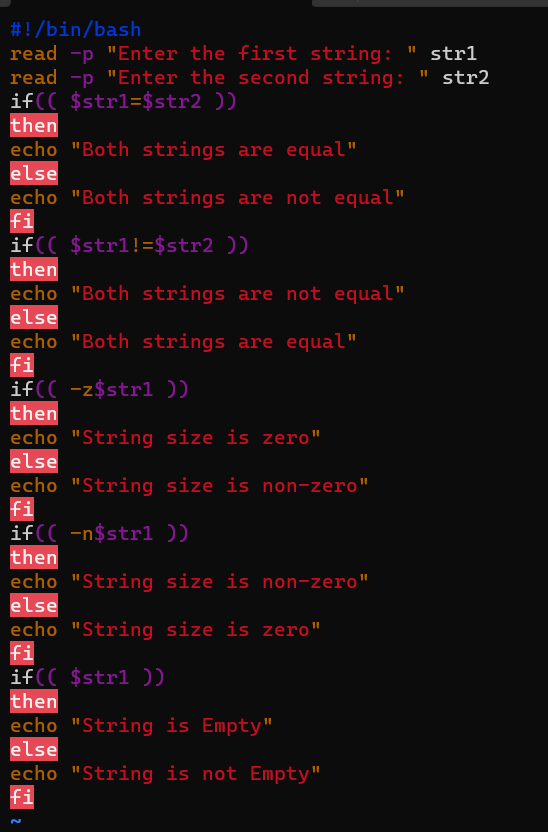
**Experiment 12 11-04-2023**

**Aim : Shell scripting (basic operations)**

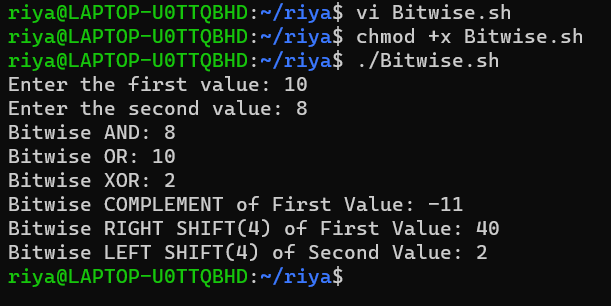
**Procedure**

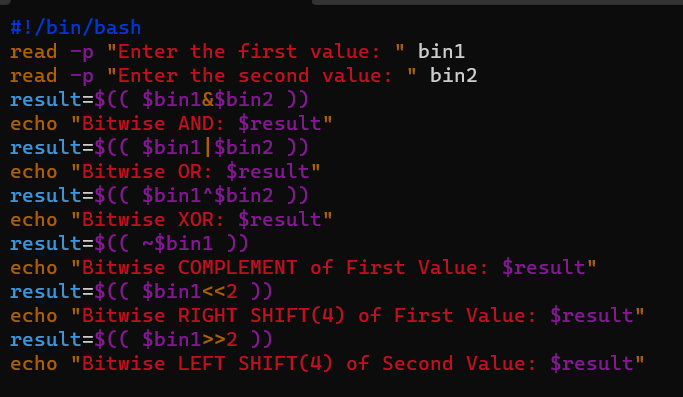
**Shell script to demonstrate String operators (Equal, Not Equals, Size is zero, Size is non-zero, Empty string) by taking user input**

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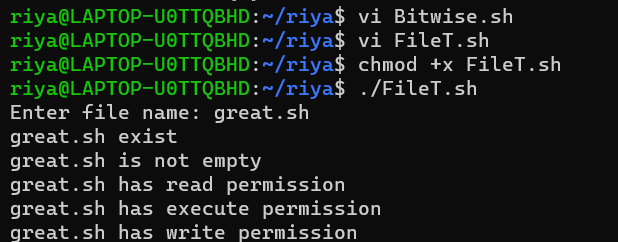
****

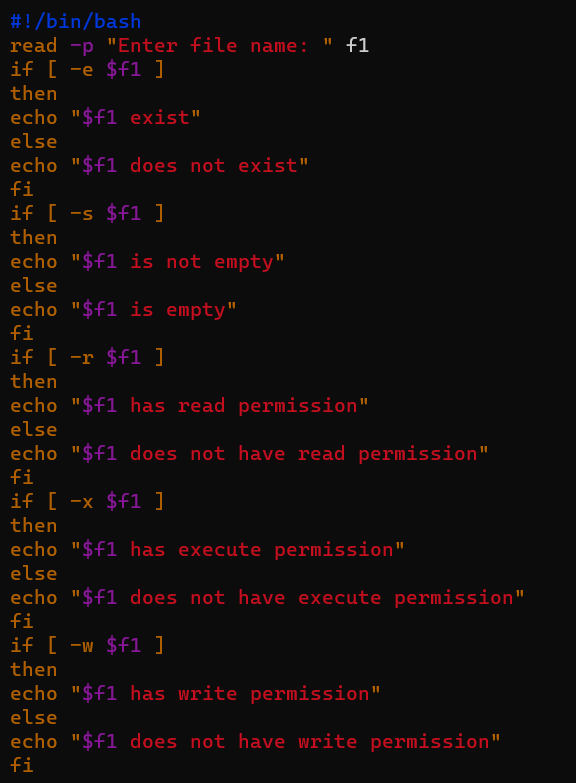
**Shell script to demonstrate Bitwise operators (AND, OR, XOR, Complement, Right Shift, Left Shift) by taking user input**

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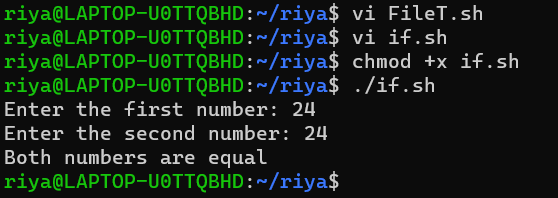
****

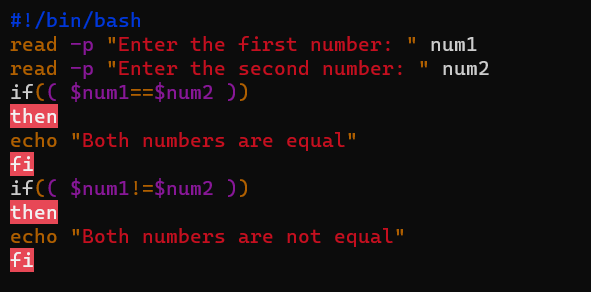
**Shell script to demonstrate File Test operators (Exist(e), Size(s), Read Permission(r), Execute Permission(x), Write Permission(w)) by taking user input**

****

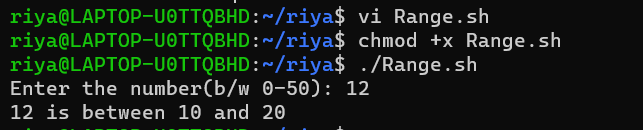
****

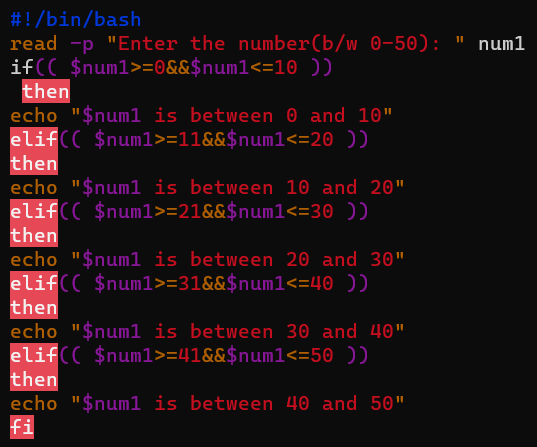
**Shell Script to check if two numbers are equal using if statement**

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**5. Shell Script to check the range of a number if numbers using else if ladder**

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