

WORKSHEET-5

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Branch: CSE AIML

Semester: 3rd

Subject Name: Operating Systems

UID: 21BCS8935

Section/Group: 21AML-12(A)

Date of Performance: 13/102022

Subject Code:21CSH-242

1.Aim/Overview of the practical: Write a program using arithmetic operators in shell programming.

Write a program using relational operators in shell programming

2.Apparatus(For applied/experimental sciences/materials based labs): Ubuntu Software, Virtual Machine

Algorithm/Flowchart (For programming based labs):

3.Theme/Interests definition(For creative domains): Understand the basics of hf shell script, apply the operations in shell scripts which are required for different applications

4.Steps for experiment/practical:

- a)** Step 1. Open up a terminal
- b)** Step 2. Use a nano to create a file and enter the code.
- c)** Step 3. Compile the program using bash command.

5.Observations/Discussions(For applied/experimental sciences/materials based labs):

CODE -1:

```
GNU nano 0.2
x=10
y=20
echo "x=10,y=20"
echo " Addition of x and y:"
echo $(( $x + $y))
echo " subtraction of x and y:"
echo $(( $x - $y))
echo " Multiplication of x and y:"
echo $(( $x * $y))
echo " Division of x and y:"
echo $(( $x / $y))
█
```

OUTPUT:

```
pravallika@pravallika-VirtualBox:~$ nano 1
pravallika@pravallika-VirtualBox:~$ bash 1
x=10,y=20
Addition of x and y:
30
subtraction of x and y:
-10
Multiplication of x and y:
200
Division of x and y:
0
pravallika@pravallika-VirtualBox:~$
```

CODE 2:

```
echo " enter three numbers:"
read n1
read n2
read n3
if [ $n1 -gt $n2 ] && [ $n1 -gt $n3 ]
then
echo "n1 is greater "
elif [ $n2 -gt $n1 ] && [ $n2 -gt $n3 ]
then
echo "n2 is greater"
else
echo "n3 is greater"
fi
```

OUTPUT:

```
pravallika@pravallika-VirtualBox:~$ nano 2
pravallika@pravallika-VirtualBox:~$ bash 2
enter three numbers:
1
2
3
n3 is greater
pravallika@pravallika-VirtualBox:~$
```

6.Percentage error (if any or applicable): Few implicit warnings.

7.Result/Output/Writing Summary:

```
pravallika@pravallika-VirtualBox:~$ nano 1
pravallika@pravallika-VirtualBox:~$ bash 1
x=10,y=20
Addition of x and y:
30
subraction of x and y:
-10
Multiplication of x and y:
200
Division of x and y:
0
pravallika@pravallika-VirtualBox:~$ nano 2
pravallika@pravallika-VirtualBox:~$ bash 2
enter three numbers:
1
2
3
n3 is greater
```

8.Learning outcomes (What I have learnt):

1. Learnt to use terminal in Ubuntu.
2. Learnt to use code editor in Ubuntu.
3. Learnt to compile a c file here.

Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			