



Usman Institute of Technology
Department of Computer Science Fall 2022

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Course: Operating Systems (CS312)

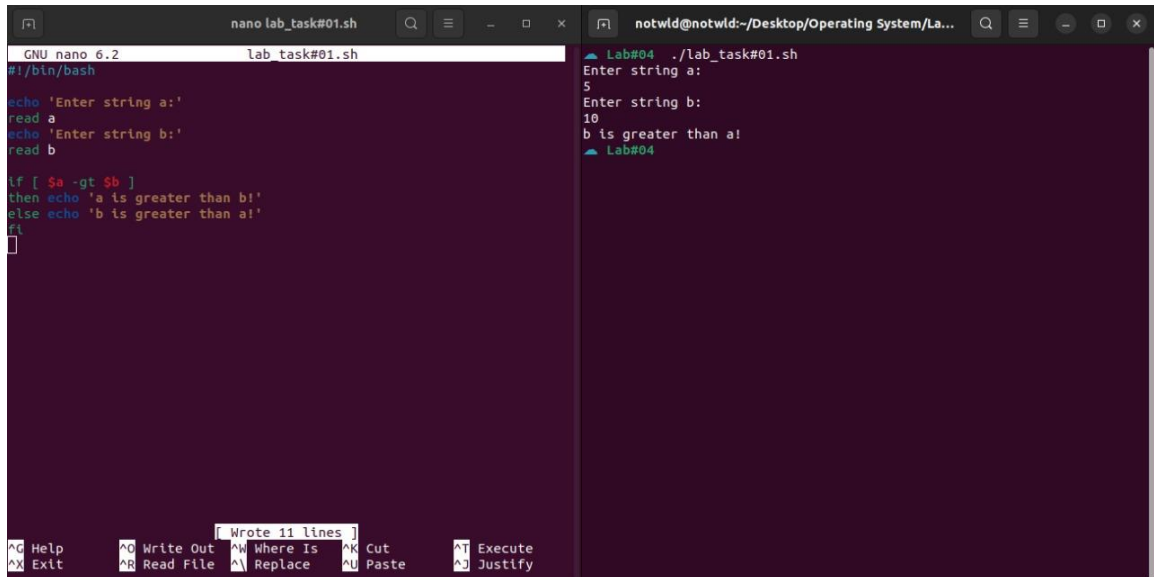
Course Instructor: Ma'am Shabina Mushtaq

Date: 3-Nov-2022

Lab Tasks:

1. Write a script that takes two strings as input compares them and depending upon the results of the comparison prints the results.

The user may provide input to the Bash script using read var



The screenshot shows two terminal windows. The left window is a nano editor editing 'lab_task#01.sh'. The script uses 'read' to get two strings, 'a' and 'b', and an 'if' statement to compare them. The right window shows the script being executed with inputs '5' and '10', resulting in the output 'b is greater than a!'.

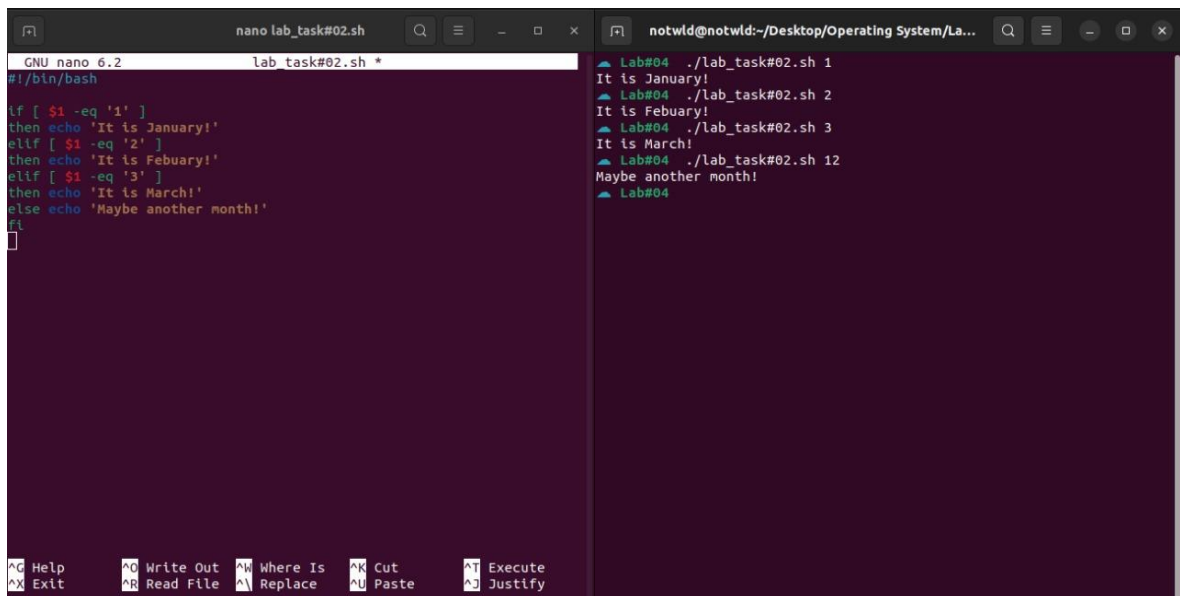
```
GNU nano 6.2 lab_task#01.sh
#!/bin/bash

echo 'Enter string a:'
read a
echo 'Enter string b:'
read b

if [ $a -gt $b ]
then echo 'a is greater than b!'
else echo 'b is greater than a!'
fi
```

```
Lab#04 ./lab_task#01.sh
Enter string a:
5
Enter string b:
10
b is greater than a!
Lab#04
```

2. Write a script that takes a number (parameter) from 1-3 as input and uses case to display the name of corresponding month.



The screenshot shows two terminal windows. The left window is a nano editor editing 'lab_task#02.sh'. The script uses 'case' to map numbers 1, 2, and 3 to the months January, February, and March. The right window shows the script being executed with inputs 1, 2, 3, and 12, resulting in the corresponding month names or 'Maybe another month!'.

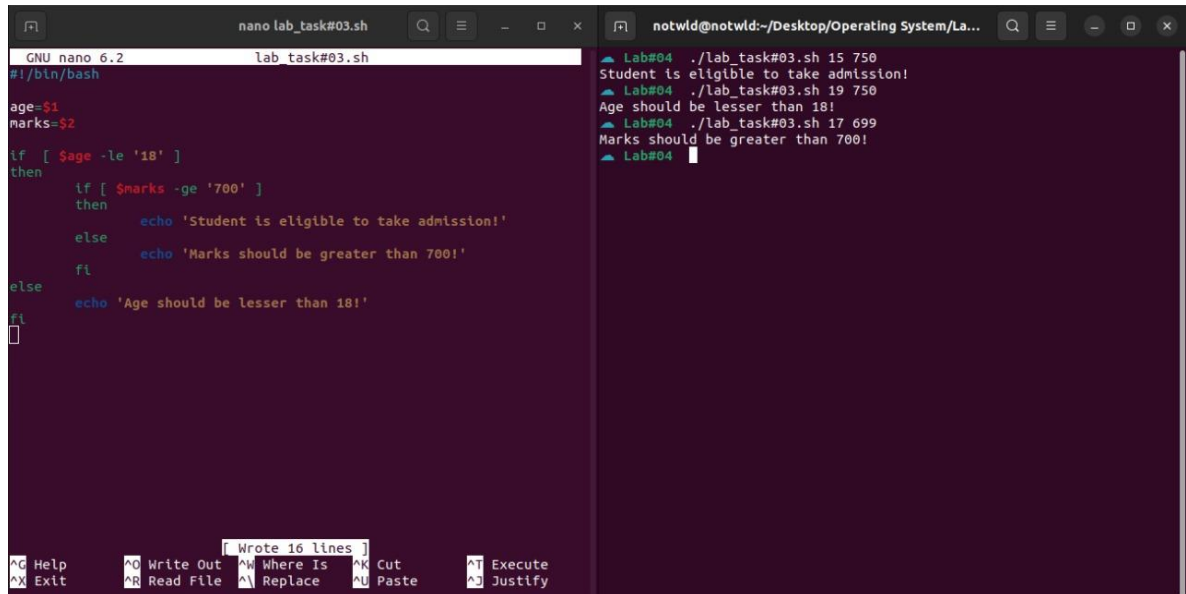
```
GNU nano 6.2 lab_task#02.sh *
#!/bin/bash

if [ $1 -eq '1' ]
then echo 'It is January!'
elif [ $1 -eq '2' ]
then echo 'It is February!'
elif [ $1 -eq '3' ]
then echo 'It is March!'
else echo 'Maybe another month!'
fi
```

```
Lab#04 ./lab_task#02.sh 1
It is January!
Lab#04 ./lab_task#02.sh 2
It is February!
Lab#04 ./lab_task#02.sh 3
It is March!
Lab#04 ./lab_task#02.sh 12
Maybe another month!
Lab#04
```

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Operating Systems
Lab#04

3. Write a script that takes command-line argument for age and marks and decide whether student is eligible for admission or not. Eligibility Criteria: Age should be lesser than 18 and marks should be greater than 700



```
nano lab_task#03.sh
GNU nano 6.2 lab_task#03.sh
#!/bin/bash
age=$1
marks=$2

if [ $age -le '18' ]
then
    if [ $marks -ge '700' ]
    then
        echo 'Student is eligible to take admission!'
    else
        echo 'Marks should be greater than 700!'
    fi
else
    echo 'Age should be lesser than 18!'
fi

Wrote 16 lines
Help Write Out Where Is Cut Execute
Exit Read File Replace Paste Justify

Lab#04 ./lab_task#03.sh 15 750
Student is eligible to take admission!
Lab#04 ./lab_task#03.sh 19 750
Age should be lesser than 18!
Lab#04 ./lab_task#03.sh 17 699
Marks should be greater than 700!
Lab#04
```