

Bangladesh University of Business and Technology



Department of Computer Science & Engineering

Course Title: Operating System Lab

Course No: CSE 316

Intake: 44 (Day)

Section: 8

Lab Report

Submitted by

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Intake: 44

Section: 08

Submitted to

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Lecturer

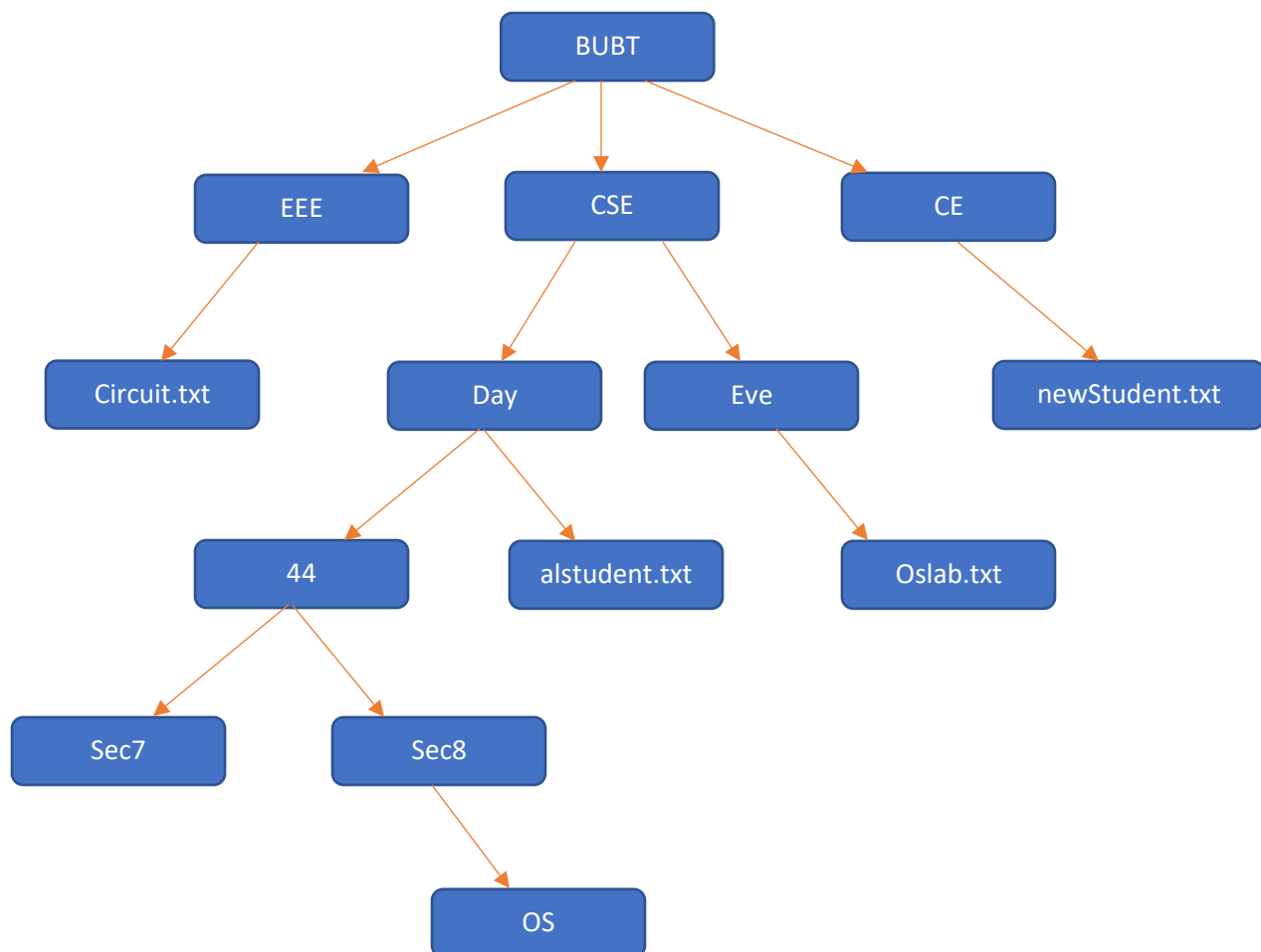
Department of Computer Science & Engineering

Experiment No: 07

Experiment Title: Shell script commands, File Creating, File Read & Write, File Handling Using Bash File.

Theory: - Bash is a shell program written by Brian Fox as an upgraded version of Bourne Shell program 'sh'. It is an open-source GNU project. It provides functional improvements over Bourne Shell for both programming and interactive uses. It includes command line editing, key bindings, command history with unlimited size, etc. In basic terms, Bash is a command line interpreter that typically runs in a text window where user can interpret commands to carry out various actions. The combination of these commands as a series within a file is known as a Shell Script. Bash can read and execute the commands from a Shell Script.

Question-01: Write a bash program to create a given file System.



Command:

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

```
cd ~/Zobayer
```

```
mkdir BUBT
```

```
cd BUBT
```

```
mkdir EEE CSE CE
```

```
cd EEE
```

```
touch circuit.txt
```

```
cd ..
```

```
cd CE
```

```
touch new_student.txt
```

```
cd ..
```

```
cd CSE
```

```
mkdir Day Eve
```

```
cd Eve
```

```
touch os_lab.txt
```

```
cd ..
```

```
cd Day
```

```
mkdir 44
```

```
touch al_student.txt
```

```
cd 44
```

```
mkdir sec7 sec8
```

```
cd sec8
```

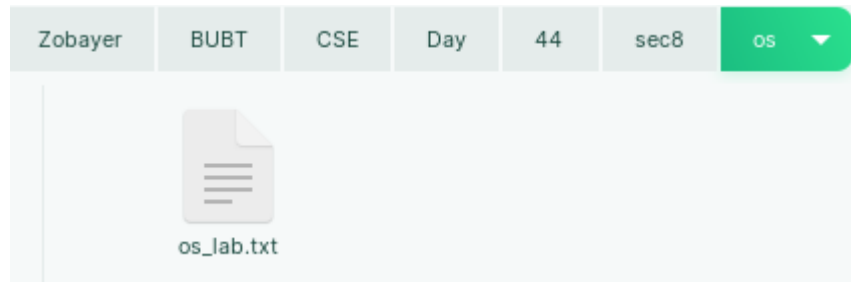
```
mkdir os
```

Question-02: Write a bash program to create any file in OS Directory?

Command:

```
cd ~/Zobayer/BUBT/CSE/Day/44/sec8/os
```

```
touch bash_file.sh
```



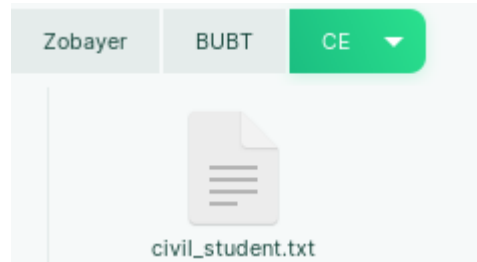
Question-03: Write a bash program to rename newStudent.txt to civil_student.txt?

Command:

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

```
cd ~/Zobayer/BUBT/CE
```

```
mv new_student.txt civil_student.txt
```



Question-04: Write a program to copy the file circuit.txt in the 44 Directory?

Command:

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

```
cd ~/Zobayer/BUBT/EEE
```

```
cp circuit.txt ~/Zobayer/BUBT/CSE/Day/44
```



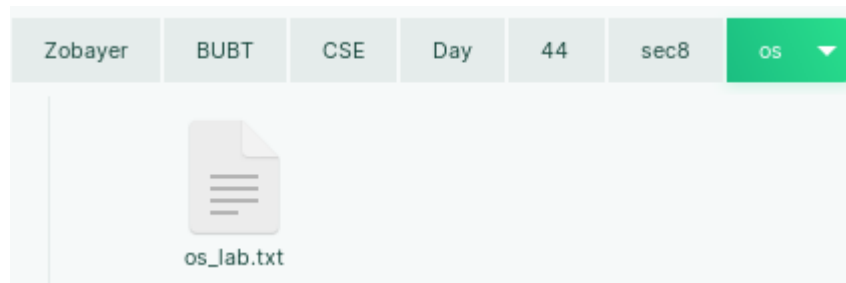
Question-05: Write a bash program to move the oslab.txt into section8 OS directory?

Command:

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

```
cd ~/Zobayer/BUBT/CSE/Eve
```

```
mv os_lab.txt ~/Zobayer/BUBT/CSE/Day/44/sec8/os
```



Programming on Bash File

Question: Addition two number?

Command:

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

```
echo "Enter Two Number"
```

```
read a
```

```
read b
```

```
sum=$(( $a + $b ))
```

```
sub=$(( $a - $b ))
```

```
mul=$(( $a * $b ))
```

```
echo "Sum: $sum"
```

```
echo "Sub: $sub"
```

```
echo "mul: $mul"
```

```
zobayer@zobayer: ~/Zobayer/Nayem
zobayer@zobayer:~/Zobayer/Nayem$ chmod +x bash_6.sh
zobayer@zobayer:~/Zobayer/Nayem$ ./bash_6.sh
Enter Two Number
5
4
Sum: 9
Sub: 1
mul: 20
zobayer@zobayer:~/Zobayer/Nayem$
```

Question 02: Analyze Grater and Smallest Number between two numbers?

Command:

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

```
echo "Enter value of: "
```

```
read a
```

```
read b
```

```
if [ $a -gt $b ]
```

```
then
```

```
echo "$a is biggest"
```

```
else
```

```
echo "$b is biggest"
```

```
fi
```



```
zobayer@zobayer: ~/Zobayer/Nayem
zobayer@zobayer:~/Zobayer/Nayem$ chmod +x bash_7.sh
zobayer@zobayer:~/Zobayer/Nayem$ ./bash_7.sh
Enter value of :
5
4
5 is biggest
zobayer@zobayer:~/Zobayer/Nayem$
```