

Lab Mid

Course Code: CL205	Course Name: Operating Systems Lab
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Student Roll No:	Section:

"Be willing to take a chance, because you never know how perfect something could turn out to be."

BEST OF LUCK!

Instructions

- Rules are made to break them. So, invent yours and I'll break.

Time: 60 minutes.

Max Marks: 40 points

(5 marks)

1. Display the contents of 'file1', 'file2' and 'studentList' files.

2. Create shortcut of the directory 'song' which is in 'home/user/Document/Music' in '/home/user/Desktop'.

3. Create a write-only file in your home directory.

4. List all files with extension '.txt' present in a directory 'OS' which is in '/home/user/Document'.

5. Copy all files in the current directory whose names contain the character string "let" into the subdirectory "Letters".

```
for i in { 1 . . 10 . . 2 }
```

```
do
```

```
echo "Hey!!"
```

```
done
```

What is the output?

(2.5 marks)

Write a Bash script to rename all files having extension sh to exe.

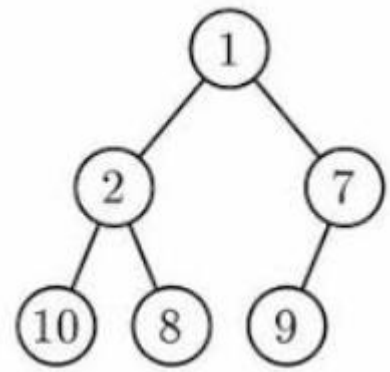
(3.5 marks)

Write a Bash script that prints the number of arguments provided to that program multiplied by the first argument provided to the program.

(4 marks)

Write a Bash script that prints "Oh No!! Today is GR2 Mid" if today is Monday. **(5 marks)**

Write a c program for this process tree.
Each node will print its name and PID but by not using printf().
(10 marks)



Write System calls for Shared Memory **(10 marks)**

- 1.
- 2.
- 3.

System call for named pipe is _____.

System call for unnamed pipe is _____.

Explain functions and their arguments:

`msgrcv(msgid,&msg,sizeof(msg),1,0);`

`retval = read(fd, buffer, sizeof(buffer));`

`write(1, buffer, sizeof(buffer));`

Bonus Question:

Write anything which proves me you are a Linux User. Bonus marks depends on your creativity.