

**Lab Mid**

<b>Course Code: CL205</b>	<b>Course Name: Operating Systems Lab</b>
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<b>Student Roll No:</b>	<b>Section:</b>

***"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.

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

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

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

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

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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.

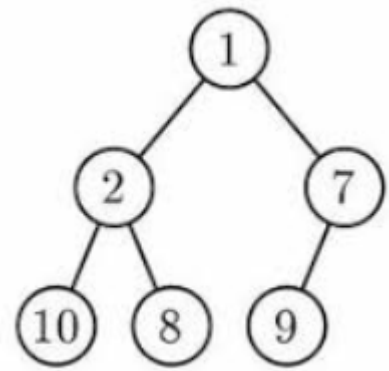
**(3.5 marks)**

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.