CED191056

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Ques1:

```
nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4$ cd "/home/nandita/OSLab1/OSLab4/"
Pid=1027 PPid=1026
Pid=1028 PPid=1026
Pid=1031 PPid=1028
Pid=1029 PPid=1027
Pid=1030 PPid=1026
Pid=1030 PPid=178
Pid=1033 PPid=1029
Pid=1032 PPid=1027
```

Ques2:

Content of directory

Process tree

```
nandita@DESKTOP-2LH63U6:~/oSLab1/OSLab4$ cd "/home/nandita/OSLab1/OSLab4/" && gcc Ques2.c -o Ques2 && "/home/nandita/O
init---init---sh---sh---sh---node---bash
--bash---pstree
--12*[{node}]
--node---12*[{node}]
--node---10*[{node}]
```

Ques3.1:

execl()

nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4\$ cd "/home/nandita/OSLab1/OSLab4/" && gcc Ques3.1.c -o Ques3.1
total 4.0K
drwxr-xr-x 14 nandita nandita 4.0K Aug 29 13:35 nandita

execlp()

nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4\$ cd "/home/nandita/OSLab1/OSLab4/" && gcc Ques3.5.c -o Ques3.5
total 4.0K
drwxr-xr-x 14 nandita nandita 4.0K Aug 29 13:35 nandita

execv()

```
nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4$ cd "/home/nandita/OSLab1
total 4.0K
drwxr-xr-x 14 nandita nandita 4.0K Aug 29_13:35 nandita
```

nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4\$ cd "/home/nandita/OSLab1/OSLab4/" && gcc Ques3.6.c -o Ques3.6. drwxr-xr-x 14 nandita nandita 4.0K Aug 29 13:35 nandita • Wait: nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4\$ cd "/home/nandita/OSLab1/OSLab4/" && Exit status: 1 Ques4: nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4\$ cd "/home/nandi Enter the size: 15 Parent Process Even sum is 56 Child Process Odd sum is 64 Ques5: nandita@DESKTOP-2LH63U6:~/OSLab1/OSLab4\$ cd "/home/nandita/OSLab1/OSLab4/" & Enter the size of array :10 Enter the elements:4 7 9 3 2 5 6 7 Child processThe numbers in Descending order are: 3 8 7 7 6 4 2

Parent processThe numbers in Ascending order are:

5

6

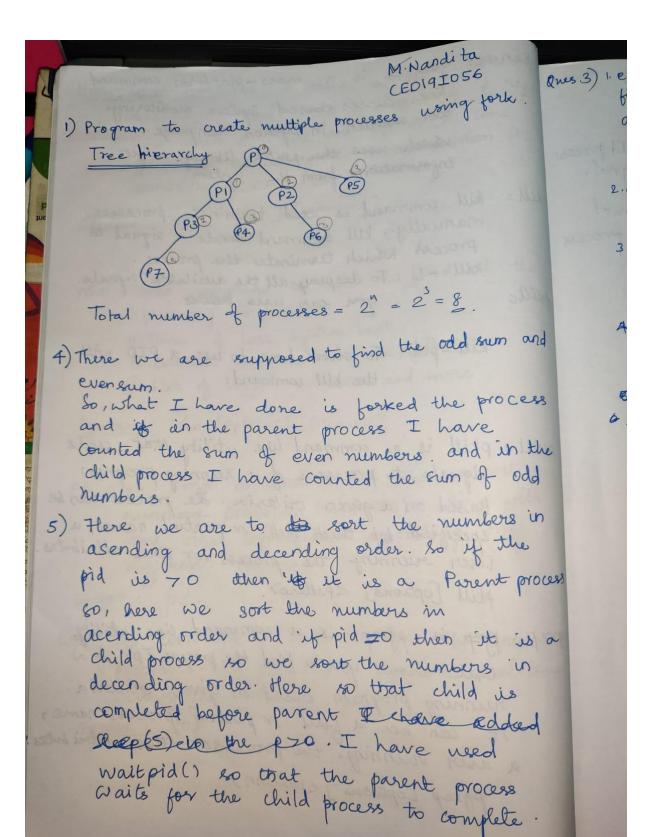
7

8

9

4

execvp()



ary to path followed by NULL.

e.execlp()
full path is not required, filename is enough.

3. execv()
Same as execl() by this one is a
Mull terminated array.

2d

full path is not required, file name is enough. it is null terminated array.

65. wait (& stat)
on success, returns the process Id of the

terminated child, on error -1 is returned

6. waitpid():
This system call suspends the execution of
the current process untill a child specified by
pid argument has changed state.

Tag <-1 Wait for any child process grp id is equal to also value of pid

-1 meaning wait for any child process.

O wait for the child process whose process id is same as groupied.

wifexited (status) seturns true of the dild processing (status) returns true of the dild processing (status) returns the number of the signal that caused the dild process to terminate.

2. Here I have used is to display the content of the directory and petere to show the process tree.