CED191056

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## Ques1 Output

```
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ gcc Ques1.c -o Q1
 nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ ./Q1
 Enter the string to be passed through pipe :Nandita
 Reversed String in child: atidnaN
Ques2 Output
 nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ gcc Ques2.c -o Q2
 nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ ./Q2
 Enter the string1 to be passed through pipe :Nandita
 Enter the string2 to be passed through pipe :Manchikanti
 concatenated String : NanditaManchikanti
Ques3 Output
i)
nandita@DESKTOP-2LH63U6:~$ gcc example.c
nandita@DESKTOP-2LH63U6:~$ ./a.out
OSLab4
Lab5
OSLab1
ii)
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ gcc Ques3.c -o Q3.2
Ques3.c: In function 'main':
Ques3.c:34:9: warning: implicit declaration of function 'close'; did
             if (close(fd1) < 0)
                  pclose
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ ./Q3.2
opened the fd = 3
closed the fd.
iii)
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ gcc Ques3.c -o Q3.3
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ ./Q3.3
Nandita
Nandita
Ques 4 Output
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ gcc Ques4p1.c -o p1
                                                            nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ gcc Ques4p2.c -o p2
Ques4p1.c: In function 'main':
Ques4p1.c:17:9: warning: implicit declaration of function 'sleep' [-Wimplicit-
                                                            nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ ./p2
Data read from memory: Nandita
                                                            Write Data : Manchikati
function-declaration]
  17 I
           sleep(1);
                                                            nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$ ./p1
Write Data : Nandita
Data read in memory: Manchikati
nandita@DESKTOP-2LH63U6:~/OSLab/Lab5$
```

- 1. First take the input string using Scant Creates 2 pipes namely pipes and pipez. Greate a child process using fork write the string to the child in pipes. Read the string sent by parent to the child in pipes. Reverse the string in child and send to the parent through pipez fead and display the data sent by child.
- 2. Same as the above question but the only difference is, we take the 2nd string input in thild process, concatenate in the child and send it to parent. The parent displays it.

3. i) opendir (" (dename");

I oreturns a pointer pointing to the directory of type DIR.

- If directory is not present, returns a null.

readdir (DIR pointer).

Sketurns a pointer to an object of type struct direct.

- if ever returns NULL.

"ii) Open (1

is used to open the file for reading, writing or both

eg: open ("filename", O-RDONLY)

eg: Open ("file name", O\_WRONLY)

Conly writing

outions a file descriptor number (usually 3)

close ().
Tells the Os that you are done with a fd and close the file pointed by the fd.
int close (int fd);

iii) read() oread() roys call is used to read from a file descriptor.

0 -> fd for standard input device 1 -> standard output device. 2 -> standard error device

eg: read (a, buff, 10).

Plead from standard input to buffer size 10. hytes.

write ().
write some data to any file or fd.
eg: write (!, buff, 10)

for of where to write )

from where should

to it write (the

place of data)

How many bytes of data it should write.

4) Made a shared memory for str and temp.

Gave the input string in PI the string given in PI is printed in P2. So, next we give input in P2 and it stories printed in P1. After giving input Jam making the temp= "\*\*. And this makes the process p1 to wait untill the String is entered in P2.