Name: Rajkumar B L

Reg.No: 2047120

Course: MCS 172 - Lab Test 03

## Question 01 - A:

This is from exec

kumarraj@kumarraj:~/MCS\_172/LabTest3\$

```
Select Ubuntu 20.04 LTS
kumarraj@kumarraj:~/MCS_172/LabTest3$ ls
2047120_MCS172.docx 2047120_MCS172.pdf client.c clnt execution.c fdBhv.c q1.sh reader.c server.c sr writer.c
kumarraj@kumarraj:~/MCS_172/LabTest3$ bash q1.sh
Enter the name of dir to create: CAT03
Listing all current open files:COMMAND PID USER FD TYPE DEVICE SIZE
                                                                                NODE NAME
                                 512 23925373020436272 /
        1 root cwd
init
                     DIR 0,2
         1 root rtd
                       DIR
                             0,2
                                   512 23925373020436272
init
        1 root txt
                       REG
                            0,2 631968 97108866965206885 /init
                                                  30565 /init (path dev=0,2, inode=97108866965206885)
init
                      REG
        1 root mem
                            0.0
init
        1 root NOFD
                                                        /proc/1/fd (opendir: Permission denied)
                            0,2 512 23925373020436272 /
0,2 512 23925373020436272 /
init
        7 root cwd
                      DTR
init
        7 root rtd
                      DIR
        7 root txt
                       REG
                           0,2 631968 97108866965206885 /init
init
                                                  30565 /init (path dev=0,2, inode=97108866965206885)
init
        7 root mem
                      REG
                            0,0
         7 root NOFD
                                                        /proc/7/fd (opendir: Permission denied)
init
                             0,2 512 23925373020436272 /
0,2 512 23925373020436272 /
       203 root cwd
                      DIR
                            0,2
init
init
       203 root rtd
                      DIR
init
       203 root txt
                      REG
                             0,2 631968 97108866965206885 /init
       203 root mem
                      REG
                                                  30565 /init (path dev=0,2, inode=97108866965206885)
init
       203 root NOFD
                                                        /proc/203/fd (opendir: Permission denied)
kumarraj@kumarraj:~/MCS_172/LabTest3$ ls
2047120_MCS172.docx 2047120_MCS172.pdf CAT03 client.c clnt execution.c fdBhv.c q1.sh reader.c server.c sr writer.c
kumarraj@kumarraj:~/MCS_172/LabTest3$
Question 01 - B:
O Ubuntu 20.04 LTS
kumarraj@kumarraj:~/MCS_172/LabTest3$ gcc execution.c -o excute
kumarraj@kumarraj:~/MCS_172/LabTest3$ gcc fdBhv.c -o fdbh
fdBhv.c: In function 'fd_exec':
fdBhv.c:84:5: warning: null argument where non-null required (argument 2) [-Wnonnull]
           execv("./excute", NULL);
kumarraj@kumarraj:~/MCS_172/LabTest3$ ./fdbh
Menu
1.Fork
2.Exec
3.Exit
Enter your choice:1
File opened succesfully...
This is child writing to the file with fd = 3
This is parent writing to the file with fd = 3
Enter your choice:2
File opened succesfully...
FD of current fdBhv is = 4
Hey raj, you are currently executing execution.c program
PID ofexecution.c = 470
FD of new prg execution.c is = 4
kumarraj@kumarraj:~/MCS_172/LabTest3$ cat File.txt
cat: File.txt: Permission denied
kumarraj@kumarraj:~/MCS_172/LabTest3$ chmod 744 *
kumarraj@kumarraj:~/MCS_172/LabTest3$ cat File.txt
Raj Kumar
kumarraj@kumarraj:~/MCS_172/LabTest3$ cat File2.txt
EXEC
```

## Question 02:

