```
/* to demonstrate use of dup() system call */
#include<fcntl.h>
#include<unistd.h>
int main()
{
        int fd1, fd2;
        fd1=open("txt1.txt", O_RDONLY|O_CREAT,777); //this file will be kept in slot 3.
        close(2); //0 is the file descriptor for std input, 1 for std output and 2 for error
//we are closing error file descriptor. Dup keeps the duplicated file descriptor to the immediate available
fd slot. So generated fd should be kept in slot 2.
        dup(fd1);
        while(1)
        {
        }
}
/* how to test */
gcc -o dup Dup.c
./dup &
/* & is to find what is the process id */
[3] 2937
cd /proc/2937
/* proc is the file system that is tracking all the running processes */
/proc/2937$ Is
/*this is the process control block*/
```

/proc/2937\$ cd fd

/proc/2937/fd\$ Is -Irt

0 and 1 are standard input and output respectively.

Slot 3 is for txt1.txt and slot 2 is duplicated for txt1.txt