

FAST NUCES



Laboratory Manual

For

Operating Systems

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Question # 1

In class, we discussed file descriptors that hold pointers to resources. Your task for today is to explain the working of file descriptors using **dup** and **dup2**. Now if we create two processes using a **fork**, will they share the same file descriptor? In the end, replace a program using **execvp** and show the evidence that changing the program doesn't change the condition of the file descriptor of a process.

Use **ls** binary executable file for proc file system to see the condition of a file descriptor.

e.g. *ls /proc/(process id)/fd*

Question # 2

Show demonstration of named pipes. e.g. mkfifo

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