

Assignment No. 1

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NOTE: Code has comments

- This code implements a simple command line shell program in C.
- It uses fork() and exec() functions.
- First the command is stored to command_line (pointer).
- command_line is parsed (to read commands like ls -l) and stored to command (pointer). Function strtok() is used.
- Enter key is pressed after giving the command, this enter is replaced by NULL to indicate the end of instruction.
- Now, the process is duplicated using fork()
- Now there are two processes, i.e. Parent process and Child process.
- pid is process identifier. Child process returns pid=0 to parent Process. A switch case is used. When pid is 0, it is a Child process, if pid = -1, there was some error in duplicating, and if pid is some other number, it is a parent process which will wait for Child process to execute.
- execvp(path, command) is used by child process to perform the specific command by passing it to the kernel.
- Ctrl + D or typing "exit" will exit you out of the shell.

Contents in the Assignment1_MonicaOvalekar.zip :

- script.c
- script (executable file after compilation)
- Assignment1_MonicaOvalekar.pdf