

Assignment 2

OBJECTIVE-

To create your own custom shell in C language.

DESCRIPTION-

The file consists of a C file and a makefile. “make” when called at the terminal runs the C file. Now we have our own shell at the terminal which is distinguished by “shell>”.

The functions like `cd` ,`mkdir` , `rmdir` ,`exit` and `pwd` are implemented using inbuilt functions.

Typing `./filename` executes the executable file “filename”. It was done using `execvp()` command. `Fork()` was used to call the child program.

Typing `./filename>outputfile` or `./filename > outputfile` redirects the output in the outputfile. `Dup2()` and `execvp()` commands were used to do so. `Fork()` was used for calling child program.

Typing `./filename<inputfile` or `./filename < inputfile` redirects the input from the inputfile. `Dup2()` and `execvp()` commands were used to do so. `Fork()` was used for calling child program.

Typing `./filename<inputfile>outputfile` or `./filename < inputfile > outputfile` redirects inputfile and stores it in the outputfile.

Typing `./filename1|./filename2` or `./filename1 | ./filename2` takes the output from filename1 and pipes it in as an input for the filename2. `Pipe()` was used in this function.

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