Description of shell

All source files are in the same folder/directory

“exit” to return from the shell

Input the commands after “$” sign

# Commands Supported:

# Internal:

1. cd

Description: Changes Directory of the working shell

Options Supported:

-P: symbolic link shall be resolved

-L: symbolic link shall not be resolved

Edge Cases:

Arguments must be present

Incorrect use of flags handled

1. echo  
    Description: to output the argument in command line

Options Supported:

-n: does not add newline

--help: prints what option does

Edge Cases:

Arguments must be present

Incorrect use of flags handled

1. pwd  
    Description: prints the parent working directory

Options Supported:

-P: symbolic link shall be resolved

-L: symbolic link shall not be resolved

Edge Cases:

Handle if extra arguments passed

Incorrect use of flags handled

# External

1. ls

Description: Outputs all the subdirectories and files in the folder

Options Supported:

-a: outputs all files including beginning with .

-d: list the directory only and not its content

Edge Cases:

Invalid arguments handled

Incorrect use of flags handled

1. cat  
    Description: print the file contents

Options Supported:

-n: outputs along with line number

-E: adds “$” at the end of line

Edge Cases:

Handled if file not exists

Incorrect use of flags handled

1. date  
    Description: prints the current date and time

Options Supported:

-R: output RFC 5322 format

-u: output UTC time

Edge Cases:

Handle if any is argument passed other than flag

Incorrect use of flags handled

1. rm  
    Description: removes/deletes the files or folders

Options Supported:

-i: confirm before every folder (input “yes” to confirm)

-d: removes empty folder

Edge Cases:

If more than one file/folder specified

Handled if less arguments passed

Handled if file not exists

Incorrect use of flags handled

1. mkdir  
    Description: creates new directories

Options Supported:

-m: creates file with mode specified

-v: specifies user after every operation

Edge Cases:

If invalid mode is specified

Incorrect use of flags handled

# Multi-threading

add “&t” after the command, eg: ls &t

# Test Cases

ls -a ..

ls &t -a ..

date

date -u

date -R