**Simple Shell Tests**

Stage 1

Test: Lack of input i.e., just hitting enter

Result: prints prompt again

Test: Enter exit

Result: Shell should exit

Test: Enter <ctrl-d>

Result: Shell should exit

Test: Enter exit as first input

Result: Shell should exit, no seg

fault or extra outputs

Test: Enter <ctrl-d> as first input

Result: Shell should exit, no seg

fault or extra outputs

Test: Enter ‘ls-lF;.&..>.fksdk’

Result: Error for fksdk and listings of . and ..

twice plus listing of / all formatted with

entry per line and file permissions

Test: Characters used in tokenization

Result: Should be (space \t \n ; & > < |)

Stage 2

Test: Enter ps aux

Result: Should list all processes and their status and resource usage

Test: Enter clear

Result: Should clear the simple shell screen

Test: Enter ls

Result: Should list files and directories in bare format

Test: Enter ls -l

Result: Should show file or directory, size, modified

Date and time, file or folder name and owner of file

And its permission

Test: Enter lksm

Result: Should display error “Command <name> not known”

Test: Run shell within an existing shell then type <ctrl-d>

Result: Should exit one shell but not the other

Stage 3

Test: Enter pwd

Result: Should display the users home directory

Test: Enter getpath

Result: Should display current path

Test: Enter setpath /bin

Result: Should set current path to /bin

Test: Check ls works in this path

Result: Should work fine

Test: Check clear works in this path

Result: Should output an error/or not work

Test: Exit path

Result: Should print getenv return value for path

Test: Restore path on exit command

Result: Should restore path

Test: Restore path on <ctrl-d> command

Result: Should restore path

Test: Enter getpath with parameters

Result: Should print appropriate error message

Test: Enter setpath with no parameters

Result: Should print appropriate error message

Test: Enter setpath with 1 parameter

Result: Should print appropriate error message

Test: Do error messages say what the problem is and how to fix it?