

TEST SUITE

| Test ID | Test Case Description | Input Command | Expected Behavior | Status |
|---------|-----------------------------------|---|---|-------------|
| TC-01 | Basic External Command | <code>ls</code> | List all files present in current working directory. | PASS |
| TC-02 | Quoted Strings | <code>echo "pratik"</code> | It will consider part inside double quote. It prints pratik. | PASS |
| TC-03 | Create Directory | <code>mkdir test_dir</code> | It will make a test_dir directory. | PASS |
| TC-04 | Built-in: Change Directory | <code>cd test_dir</code> | It will change shell current working directory to test_dir directory. | PASS |
| TC-05 | Verify Path (pwd) | <code>pwd</code> | Prints the full path ending in /test_dir. | PASS |
| TC-06 | Output Redirection (>) | <code>echo "Hello" > file.txt</code> | It will create file.txt file containing "Hello". No output to screen | PASS |
| TC-07 | Input Redirection (<) | <code>wc -w < file.txt</code> | Reads file.txt and prints the word count (1). | PASS |
| TC-08 | Built-in: cd (Parent) | <code>cd ..</code> | Moves back to the parent directory. | PASS |

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| TC-09 | Pipeline () | <code>ls wc -l</code> | ls writes to the pipe, and wc reads from the pipe to count the total number of files. | PASS |
| TC-10 | Logical AND (Success) | <code>echo A && echo B</code> | Prints A and then B as the second command is executed after successful completion of first command. | PASS |
| TC-11 | Logical AND (Failure) | <code>ls no_file && echo B</code> | Prints an error for ls ("No such file"). Does NOT print B. | PASS |
| TC-12 | Background Process (&) | <code>pwd &</code> | Parent continues and pwd runs in background. | PASS |
| TC-13 | History Command | <code>history</code> | Lists all the previous command . | PASS |
| TC-14 | Environment Variable | <code>export MYVAR=test</code> | Variable MYVAR is set in the environment. | PASS |
| TC-15 | Exit Shell | <code>exit</code> | It will close the shell. | PASS |