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Lab# 5 Out-of-Lab Assignment

1. When the command “simple.sh” was typed it did nothing to the shell command stored in a text file. This is because to execute a shell script, the syntax requires a “./” before the text file name.
2. When the command “./simple.sh” finally executes, the bash shell responds back that the permission is denied to execute the shell command.

Text

Description automatically generated

1. When the echo shell command displays its arguments to standard output, it by default appends a new line to the output. The “-n” option however does not print the trailing newline so the next output is on the same line as the last output.
2. Yes line 3 which contains “#Shell Script “ is a comment since the pound sign in the first column indicates a comment line.
3. No the first line containing “#!/bin/bash “ is not a comment but instead the executable program /bin/bash is used to interpret the script. The systems decides that the shell script was written for the bash shell by examining the first line of the script.
4. There are 6 directories in the output

Text

Description automatically generated

1. There are no errors. There is no need to add “./” to the beginning of the file name because in the step before this I added the current working directory to the value of the PATH variable. Now there is no need to add the current working directory pathname to the filename.
2. No, the current working directory is not in the variable PATH anymore.
3. Yes, there are errors after executing the command “simple.sh”. This is because when I logged out by pressing CTRL-D, the shell interprets this as the “end of input” and terminates. When a shell script is executed, the parent shell creates a child shell to execute the commands in the script. The parent shell sleeps until the child shell terminates. The child shell is just a subshell of the parent shell which has its own current working directory. So a current directory command executed in a subshell does not affect the working directory of the parent shell.