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CSC3320 Lab 5 Part 1

Due: 2/12/2021

CRN 11173-004

Part 1

Question 1) What did you see in the output of step 3?

There was an error message:

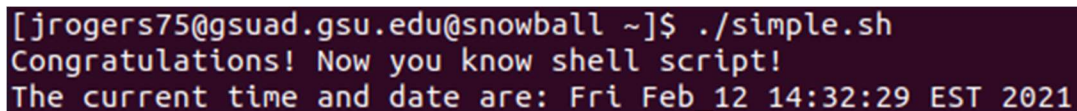
-bash: simple.sh: command not found

Question 2) What did you see in the output of step 4?

There was another error message:

-bash: ./simple.sh: Permission denied.

Question 3) Attach a screenshot of output in step 6.



```
[jrogers75@gsuad.gsu.edu@snowball ~]$ ./simple.sh
Congratulations! Now you know shell script!
The current time and date are: Fri Feb 12 14:32:29 EST 2021
```

Question 4) Describe the meaning of -n option in echo command.

The -n option means not to output the trailing newline. In our simple.sh file, it makes the date and time information print right next to the text 'The current time and date are:' instead of displaying on the line below it.

Question 5) Is "Simple Script" a comment? If not, what is the meaning of it or why we use it?

Yes, "Simple Script" is a comment and the indicator is the # that precedes the text and that it is not on the first line of the file.

Question 6) Is "#!/bin/bash" a comment? If not, what is the meaning of it or why we use it in the first line?

No, this is not a comment. Because it is located on the very first line of the file and starts with #, it tells the script which shell to use. In this particular case, it is the 'Bourne Again Shell'.

Part 2:

Question 7) How many directories you can find in the output? Note: the directories are separated by colon.

There appear to be 5 directories in the output.

```
[jrogers75@gsuad.gsu.edu@snowball ~]$ echo $PATH  
/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/home/jrogers75/.local/bin:/home/jrogers75/bin
```

Question 8) Can you find errors prompted in step 9? If not, please briefly describe why there is no need put ./ before the file name.

There were no errors prompted in step 9. The current working directory is now inserted in the beginning of the string value stored in the variable PATH so the ./ is no longer needed to run the shell script.

Question 9) Can you find the current working directory . in the PATH variable?

No, I do not see the current working directory . in the PATH variable.

Question 10) Can you find errors prompted in Step 11? If yes, please explain why?

There is an error message in Step 11. It is the same one we received in Step 3:

```
-bash: simple.sh: command not found
```

We received this message because the PATH was reset to the default settings when we logged out and back in. We will have to run the command `$echo $PATH` again to update the PATH variable so that we can run the file without using ./ as part of the command.

Part 3 (optional)

Can you find some errors when executing the command in step 4? If yes, please point out which lines contain errors.

Yes, there are errors when executing the command in step 4. Here are some points that need to be corrected:

- Line 1 – need to remove \$ and add ! after the # sign.
- Line 3 – should start with # to denote they are comment lines.
- Line 21 – need to change > to < and I believe the mail send command is echo mail instead of ls mail.
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