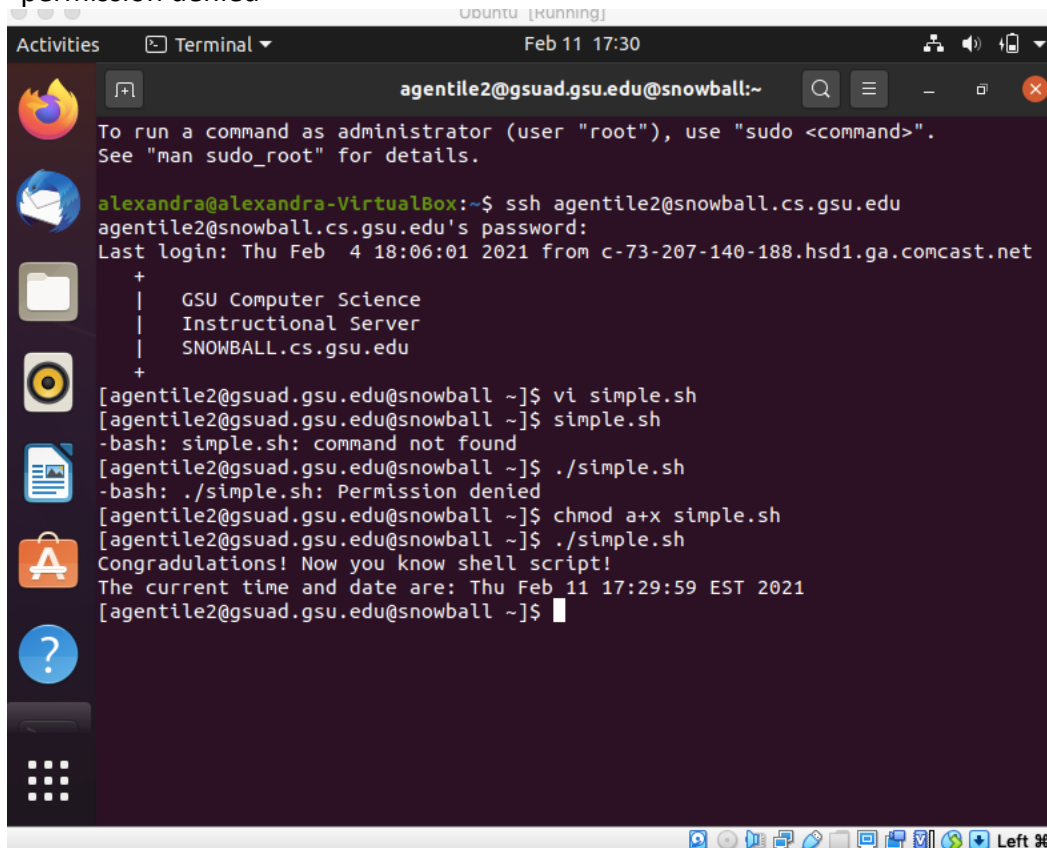


Alexandra Gentile

Lab 5

### Part 1

1. "command not found"
2. "permission denied"



The screenshot shows a terminal window titled "agentile2@gsuad.gsu.edu@snowball:~". The window displays the following text:

```
To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

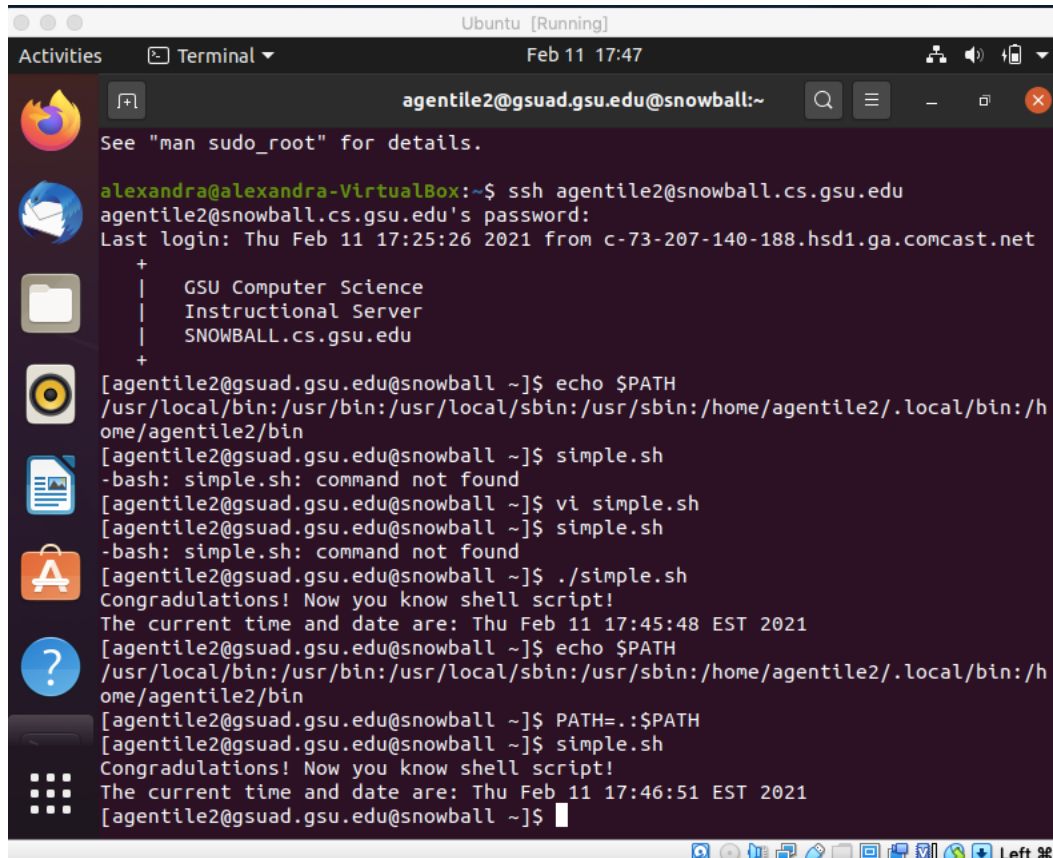
alexandra@alexandra-VirtualBox:~$ ssh agentile2@snowball.cs.gsu.edu
agentile2@snowball.cs.gsu.edu's password:
Last login: Thu Feb  4 18:06:01 2021 from c-73-207-140-188.hsd1.ga.comcast.net
+
|   GSU Computer Science
|   Instructional Server
|   SNOWBALL.cs.gsu.edu
+

[agentile2@gsuad.gsu.edu@snowball ~]$ vi simple.sh
[agentile2@gsuad.gsu.edu@snowball ~]$ simple.sh
-bash: simple.sh: command not found
[agentile2@gsuad.gsu.edu@snowball ~]$ ./simple.sh
-bash: ./simple.sh: Permission denied
[agentile2@gsuad.gsu.edu@snowball ~]$ chmod a+x simple.sh
[agentile2@gsuad.gsu.edu@snowball ~]$ ./simple.sh
Congratulations! Now you know shell script!
The current time and date are: Thu Feb 11 17:29:59 EST 2021
[agentile2@gsuad.gsu.edu@snowball ~]$
```

- 3.
4. -n in echo command means to remove the "next line" command from the output so that when executed, the string appears on a single line.
5. "Simple Script" is a comment.
6. "#!/bin/bash" is not a comment, it tells the system to execute the command.

### Part 2

1. There are 6 directories



```
agentile2@gsuad.gsu.edu@snowball:~
See "man sudo_root" for details.

alexandra@alexandra-VirtualBox:~$ ssh agentile2@snowball.cs.gsu.edu
agentile2@snowball.cs.gsu.edu's password:
Last login: Thu Feb 11 17:25:26 2021 from c-73-207-140-188.hsd1.ga.comcast.net
+
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|   Instructional Server
|   SNOWBALL.cs.gsu.edu
+

[agentile2@gsuad.gsu.edu@snowball ~]$ echo $PATH
/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/home/agentile2/.local/bin:/h
ome/agentile2/bin
[agentile2@gsuad.gsu.edu@snowball ~]$ simple.sh
-bash: simple.sh: command not found
[agentile2@gsuad.gsu.edu@snowball ~]$ vi simple.sh
[agentile2@gsuad.gsu.edu@snowball ~]$ simple.sh
-bash: simple.sh: command not found
[agentile2@gsuad.gsu.edu@snowball ~]$ ./simple.sh
Congradulations! Now you know shell script!
The current time and date are: Thu Feb 11 17:45:48 EST 2021
[agentile2@gsuad.gsu.edu@snowball ~]$ echo $PATH
/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/home/agentile2/.local/bin:/h
ome/agentile2/bin
[agentile2@gsuad.gsu.edu@snowball ~]$ PATH=.:$PATH
[agentile2@gsuad.gsu.edu@snowball ~]$ simple.sh
Congradulations! Now you know shell script!
The current time and date are: Thu Feb 11 17:46:51 EST 2021
[agentile2@gsuad.gsu.edu@snowball ~]$
```

2. No, there are no errors because we added the directory to our PATH variable allowing it to execute without ./ before the file name
3. No, the directory . is not in the PATH variable.
4. The command is not found because the current working directory was only temporarily added to the PATH variable. Once we exited out of the terminal, it removed the directory from the PATH and must be added back in or the ./ command must be put before file name in order to execute the command.

Ubuntu [Running]

Activities Terminal Feb 11 17:52

agentile2@gsuad.gsu.edu@snowball:~

To run a command as administrator (user "root"), use "sudo <command>".  
See "man sudo\_root" for details.

alexandra@alexandra-VirtualBox:~\$ ssh agentile2@snowball.cs.gsu.edu  
agentile2@snowball.cs.gsu.edu's password:  
Last login: Thu Feb 11 17:40:34 2021 from c-73-207-140-188.hsd1.ga.comcast.net

```
+ |
+ |   GSU Computer Science
+ |   Instructional Server
+ |   SNOWBALL.cs.gsu.edu
+ |
```

[agentile2@gsuad.gsu.edu@snowball ~]\$ echo \$PATH  
/usr/local/bin:/usr/bin:/usr/local/sbin:/usr/sbin:/home/agentile2/.local/bin:/home/agentile2/bin

[agentile2@gsuad.gsu.edu@snowball ~]\$ simple.sh  
-bash: simple.sh: command not found

[agentile2@gsuad.gsu.edu@snowball ~]\$

Left %