SFA Homework #6
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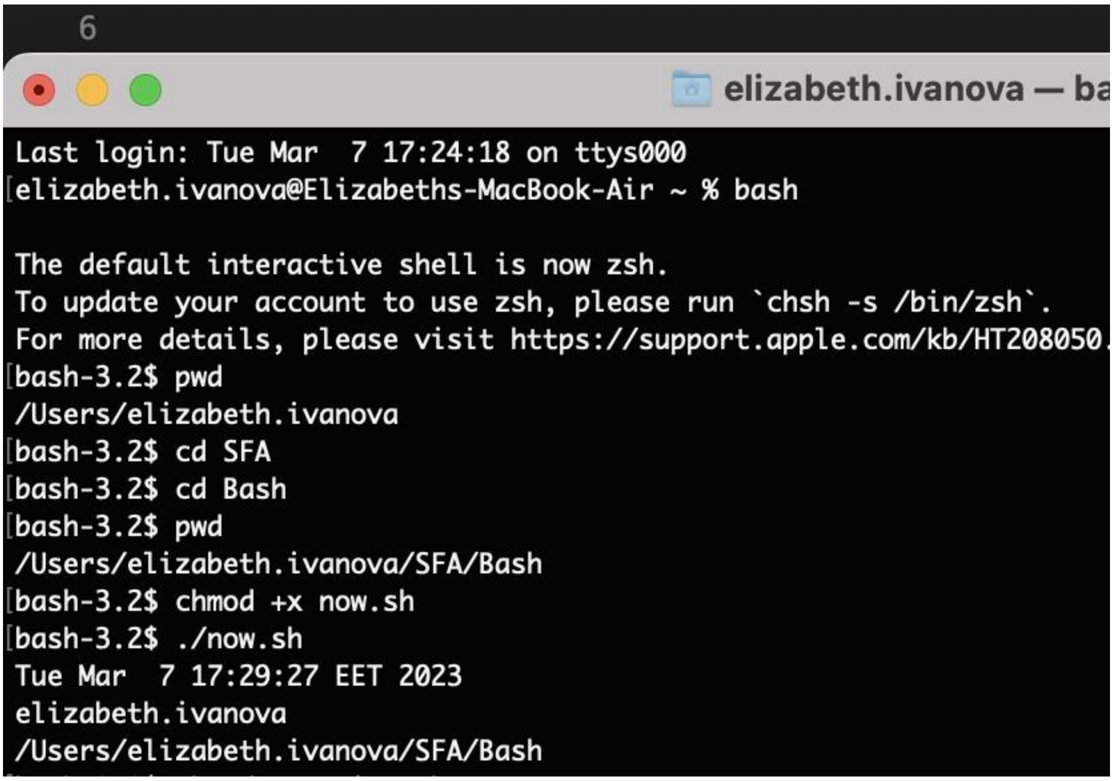
All shell scripts are uploaded to my GitHub but I am also showing their copies here

Everything was done on my personal Mac; the Linux virtual machine I was using was pushing my computer to its limits. I will complete the tasks on Linux as well in the upcoming days and will upload them to GitHub.

1. Write a shell script to get the current date, time, username and current working directory.



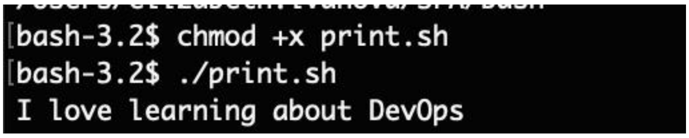
```
Last login: Tue Mar  7 17:24:18 on ttys000
[elizabeth.ivanova@Elizabeths-MacBook-Air ~ % bash

The default interactive shell is now zsh.
To update your account to use zsh, please run `chsh -s /bin/zsh`.
For more details, please visit https://support.apple.com/kb/HT208050.
[bash-3.2$ pwd
/Users/elizabeth.ivanova
[bash-3.2$ cd SFA
[bash-3.2$ cd Bash
[bash-3.2$ pwd
/Users/elizabeth.ivanova/SFA/Bash
[bash-3.2$ chmod +x now.sh
[bash-3.2$ ./now.sh
Tue Mar  7 17:29:27 EET 2023
elizabeth.ivanova
/Users/elizabeth.ivanova/SFA/Bash
```

Here, I am switching to bash because it is not my default shell. Then, I change the directory to the folder Bash in SFA and I use pwd to make sure I've arrived at that directory. After that, I use chmod +x to make the file now.sh executable. Then, I execute it and the output is all there.

Script:

```
#!/bin/bash


date


whoami


pwd
```

2. Write a shell script that prints “I love learning about DevOps” on the screen. Message should be a variable.

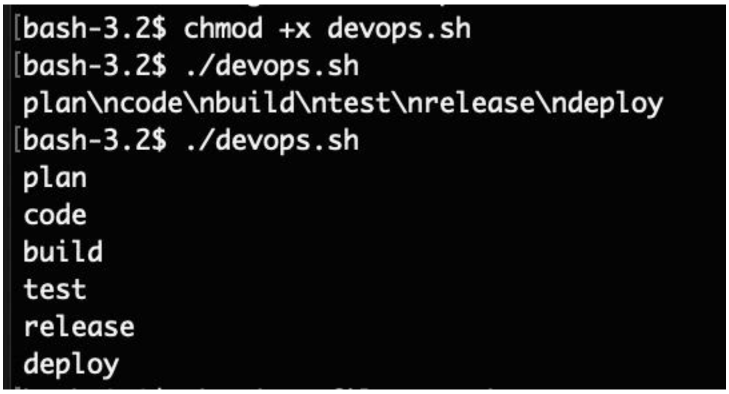


```
[bash-3.2$ chmod +x print.sh
[bash-3.2$ ./print.sh
 I love learning about DevOps
```

Script:

```
#!/bin/bash


msg="I love learning about DevOps"
echo $msg
```

3. Write a shell script that displays “plan code build test release deploy” on the screen with each appearing on a separate line.



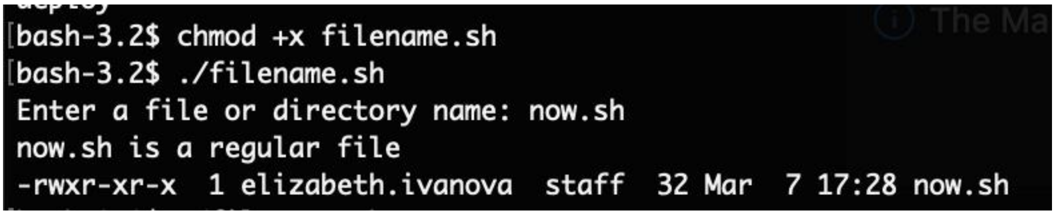
```
[bash-3.2$ chmod +x devops.sh
[bash-3.2$ ./devops.sh
 plan\ncode\nbuild\ntest\nrelease\ndeploy
[bash-3.2$ ./devops.sh
 plan
 code
 build
 test
 release
 deploy
```

Here, my first output was incorrect because I was missing the -e flag in my statement. After I put it, the output was correct.

Script:

```
#!/bin/bash

echo -e "plan\ncode\nbuild\ntest\nrelease\ndeploy"
```

4. Write a shell script that prompts the user for a name of a file or directory and reports if it is a regular file, a directory, or another type of file. Also perform a ls command against the file or directory with the long listing option.

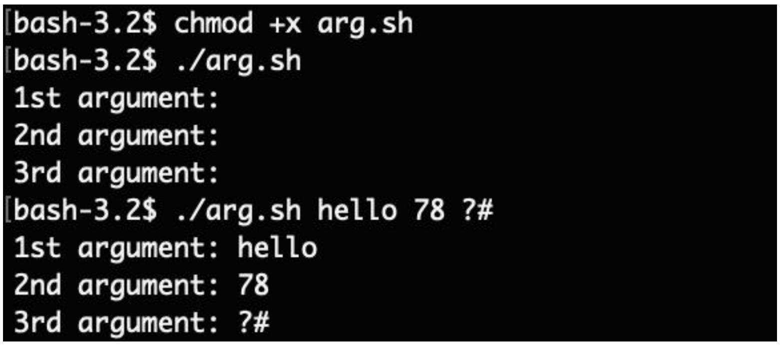


```
bash-3.2$ chmod +x filename.sh
bash-3.2$ ./filename.sh
Enter a file or directory name: now.sh
now.sh is a regular file
-rwxr-xr-x  1 elizabeth.ivanova  staff  32 Mar  7 17:28 now.sh
```

Script:

```
#!/bin/bash

echo -n "Enter a file or directory name: "
read filename

if [ ! -e "$filename" ]; then
   echo "Error: $filename does not exist"
   exit 1
fi

if [ -f "$filename" ]; then
   echo "$filename is a regular file"
elif [ -d "$filename" ]; then
   echo "$filename is a directory"
else
   echo "$filename is another type of file"
fi

ls -l "$filename"
```

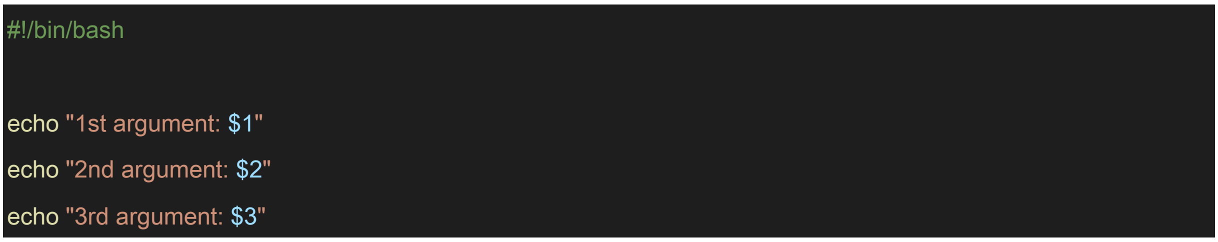
5. Use arguments in a script. Total number of arguments should be three.



```
[bash-3.2$ chmod +x arg.sh
[bash-3.2$ ./arg.sh
1st argument:
2nd argument:
3rd argument:
[bash-3.2$ ./arg.sh hello 78 ?#
1st argument: hello
2nd argument: 78
3rd argument: ?#
```

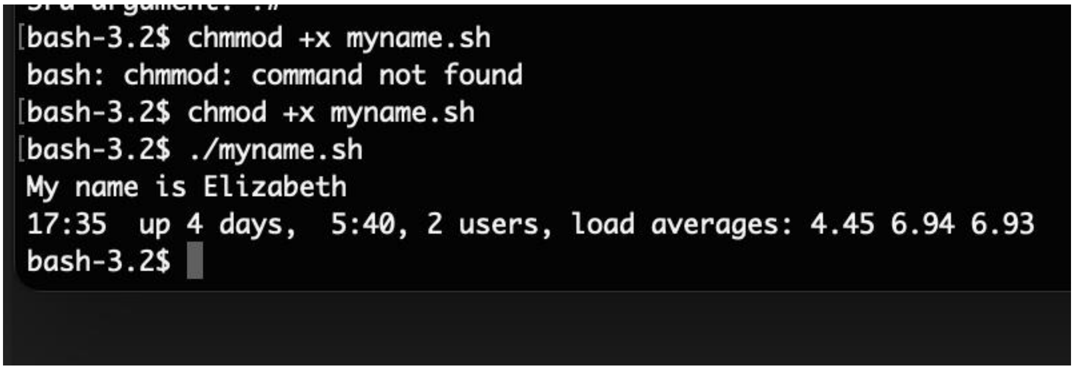
Here, I missed adding the arguments, which is why the statements were empty. Then, I called the file again and I added three separate arguments with letters, numbers, and special symbols. The output appears to be correct.

Script:



```
#!/bin/bash


echo "1st argument: $1"
echo "2nd argument: $2"
echo "3rd argument: $3"
```

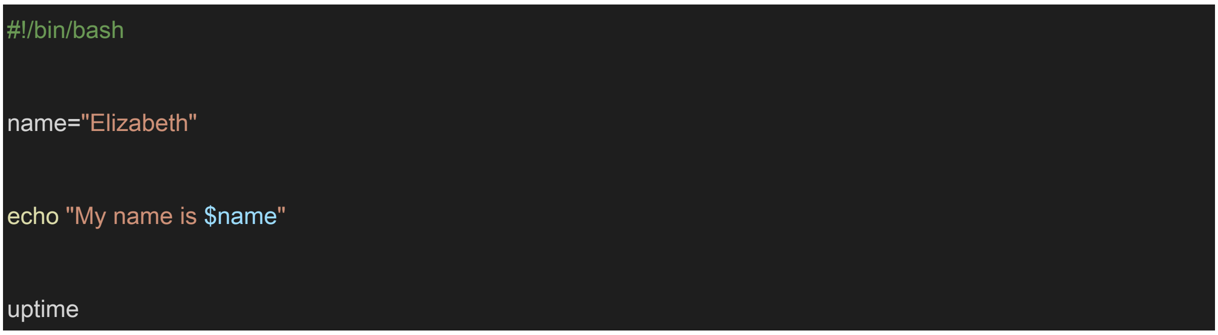
6. Write a script that till output your name out of a variable and will display the server uptime.



```
3rd argument: ./
[bash-3.2$ chmmod +x myname.sh
 bash: chmmod: command not found
[bash-3.2$ chmod +x myname.sh
[bash-3.2$ ./myname.sh
 My name is Elizabeth
 17:35  up 4 days,  5:40, 2 users, load averages: 4.45 6.94 6.93
 bash-3.2$ 
```

First, I typed chmod with double ‘m’ by mistake which is why the command was not found. Then I fixed it and got the correct output.

Script:



```
#!/bin/bash


name="Elizabeth"


echo "My name is $name"


uptime
```