

Colin Murphy

CYSE270

March 26, 2024

Task A:

Prep:

```
colinmurphy03@colinmurphy03-VirtualBox:~$ nano input_validation.sh
```

1.

```
#!/bin/bash
GNU nano 6.2 input_validation.sh
#!/bin/bash
echo "Enter a number"
read number
```
2.

```
#!/bin/bash
echo "Enter a number"
read number
if [ $number -gt 10 ]; then
    echo "input number is greater than 10."
```
3.

```
#!/bin/bash
echo "Enter a number"
read number
if [ $number -gt 10 ]; then
    echo "input number is greater than 10."
else
    echo "input number is not greater than 10."
fi
```
- 4.

Check:

```
colinmurphy03@colinmurphy03-VirtualBox:~$ nano input_validation.sh
colinmurphy03@colinmurphy03-VirtualBox:~$ chmod +x input_validation.sh
colinmurphy03@colinmurphy03-VirtualBox:~$ ./input_validation.sh
Enter a number
9
input number is not greater than 10.
colinmurphy03@colinmurphy03-VirtualBox:~$ ./input_validation.sh
Enter a number
20
input number is greater than 10.
```

Task B

Prep:

```
colinmurphy03@colinmurphy03-VirtualBox:~$ nano scripname.sh
```

typo* {changed to scripname.sh}

```
1. | GNU nano 6.2
   | #!/bin/bash
   |
   | #!/bin/bash
   |
   | #read name of file to ensure it exists
   | echo "Enter file name "
   | read filename
2. |
3. | #!/bin/bash
   |
   | #read name of file to ensure it exists
   | echo "Enter file name "
   | read filename
   |
   | #check whether input is dir oe reg file
   | if [ -e "$filename" ]; then
   |     if [ -d "$filename" ]; then
   |         echo "Directory exists"
   |     elif [ -f "$filename" ]; then
   |         echo "It is a regular file, and the file exists"
   |         echo "Contents of the file $filename:"
   |         cat "$filename"
   |     fi
4. |
5. | .
   |
   | else
   |     #create the new file
   |     touch "$filename"
   |     echo "file '$filename' created"
6. |
```

Check:

```
colinmurphy03@colinmurphy03-VirtualBox:~$ chmod +x scriptname.sh
colinmurphy03@colinmurphy03-VirtualBox:~$ ./scriptname.sh
Enter file name
cmurp019.txt
It is a regular file, and the file exists
Contents of the file cmurp019.txt:
Colin Murphy
colinmurphy03@colinmurphy03-VirtualBox:~$ ./scriptname.sh
Enter file name
data
Directory exists
colinmurphy03@colinmurphy03-VirtualBox:~$ ./scriptname.sh
Enter file name
random
file 'random' created
```