Please Refer to the slides for week-8-Shell scripting and write shell scripts to complete the

following tasks. Submit the screenshot for the script and its output, both.

NOTE: Please replace the name of the script with the name you used for the script. In the

sample screenshot, I have used those names to create my script.

Step-1: Use vi or nano editor to write your script (Ex, nano YourScriptName.sh) for the

following tasks.

Step-2: After saving the script, save and exit out of the editor and make the script executable by

adding execute permission ( chmod +x YourScriptName.sh)

Step-3: Run your script using ./YourScriptName.sh

```
berline@berline-VirtualBox:~$ nano dada.sh
berline@berline-VirtualBox:~$ chmod +x dada.sh
berline@berline-VirtualBox:~$ ./dada.sh
```

Task A (Correct script (25 points) + result/output after executing the script (25

points)- Conditional Statement

Write a shell script using nano or vi editor (eg, nano scriptname.sh) like below, that performs

the following task:

1. Add the Shebang (#!/bin/bash) as the first line in your script.

2. Read a number using read function

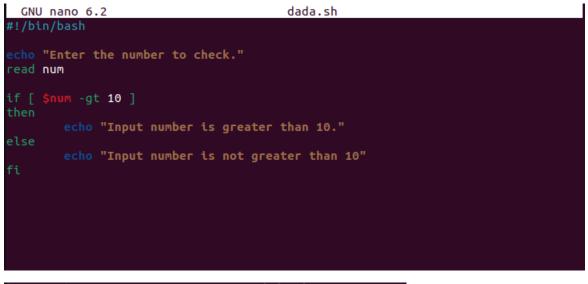
3. Using if statement, check if the input number is less than 10, then print the message

"Input number is greater than 10.

4. If the number is not greater than 10, then print the message, "Input number is not

greater than 10.

(Your script should result into the output similar to this sample screenshot after executing as shown below)



```
berline@berline-VirtualBox:~$ nano dada.sh
berline@berline-VirtualBox:~$ chmod +x dada.sh
berline@berline-VirtualBox:~$ ./dada.sh
Enter the number to check.
9
Input number is not greater than 10
berline@berline-VirtualBox:~$ ./dada.sh
Enter the number to check.
11
Input number is greater than 10.
berline@berline-VirtualBox:~$
```

Task B (Correct script (25 points) + result/output after executing the script (25

points) - Shell Script to Create a new file

Write a shell script using nano or vi editor (eg, nano scriptname.sh) like below, that performs

the following task:

- 1. Add the Shebang (#!/bin/bash) as the first line in your script.
- 2. Reads the name of the file to check for a filename that exists.
- 3. Check whether the given input is a directory or regular file.
- 4. If the input is a directory and exists, then display the message "Directory exists".
- 5. If the input is a regular file, then display the message "It is a regular file, and the file

exists" and display the contents of the file.

6. If the given input name in step-1 doesn't exist, then create the new file with the given

```
#!/bin/bash
echo "Enter a filename to check:"
read filename
if [ -d "$filename" ]
then
        echo "Directory exits"
elif [ -f "$filename" ]
then
        echo "It is a regular file, and the file exist"
        echo "The content of the file are:"
        cat "$filename"
else
        touch "$filename"
        echo "File $filename created"
fi
```

```
berline@berline-VirtualBox:~$ nano berl.sh
berline@berline-VirtualBox:~$ chmod +x berl.sh
berline@berline-VirtualBox:~$ ./berl.sh
Enter a filename to check:
data
Directory exits
berline@berline-VirtualBox:~$ ./berl.sh
Enter a filename to check:
lab-8.txt
It is a regular file, and the file exist
The content of the file are:
Berline's file
berline@berline-VirtualBox:~$ ./berl.sh
Enter a filename to check:
file23
File file23 created
```

name in step-1.

(Extra credit: 10 points) Add your name to the file (using redirection operator '>') and display

the contents for the newly created file.

7. Save and exit the editor and remember to make the script executable using the

command chmod +x scriptname.sh)

(Your script should result into the output similar to this sample screenshot after executing as

shown below)

Extra Credit(15 points)- Check Directory

Write a script like below that

1. Reads Two variables- your name and the name of the directory as input.



2. Your script should check for the validity of the given directory name, if the entered

filename is a directory, then display its contents

3. If the directory doesn't exist, then print an error message "Sorry, the entered directory

name is not a valid directory name."

4. You need to execute your script and test the following directories to test with your

script

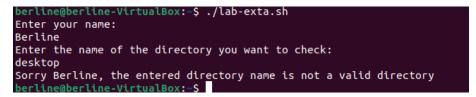
• /etc/system

berline@berline-VirtualBox:~\$ nano lab-exta.sh		
berline@berline-VirtualBox:~\$ chmod +x lab-exta.sh		
berline@berline-VirtualBox:~\$ ./lab-exta.sh		
Enter your name:		
Berline		
Enter the name of the directory you want to check:		
/etc/systemd		
Directory /etc/systemd exists		
Below are the contents file in the directory with name /etc/systemd:		
total 52	,-,-,-,	
-rw-rr 1 root root 1282 Apr 7 20	022 journald.conf	
-rw-rr 1 root root 1374 Apr 7 20		
drwxr-xr-x 2 root root 4096 Apr 7 20		
-rw-rr 1 root root 846 Mar 11 20	022 networkd.conf	
-rw-rr 1 root root 804 Mar 11 20	022 oomd.conf	
-rw-rr 1 root root 670 Mar 11 20	022 pstore.conf	
-rw-rr 1 root root 1406 Apr 7 20	022 resolved.conf	
-rw-rr 1 root root 931 Mar 11 20		
drwxr-xr-x 20 root root 4096 Mar 6 18		
-rw-rr 1 root root 1993 Apr 7 20		
-rw-rr 1 root root 748 Apr 7 20		
drwxr-xr-x 7 root root 4096 Jan 11 16		
-rw-rr 1 root root 1394 Apr 7 20		

• /home

<pre>berline@berline-VirtualBox:~\$ ./lab-exta.sh</pre>		
Enter your name:		
Berline		
Enter the name of the directory you want to check:		
/home		
Directory /home exists		
Below are the contents file in	n the directory with name /home:	
total 52		
drwxr-x 16 berline berline	e 4096 Mar 26 19:50 berline	
drwxr-x 2 bnaja001 bnaja00	01 4096 Feb  6 17:27 bnaja001	
drwxr-x 2 bnaja01 bnaja01	1 4096 Feb 6 19:32 bnaja01	
drwxr-x 2 carl carl	4096 Feb 13 14:41 carl	
drwxrwxT 2 root bnaja00	01 4096 Feb 26 22:21 cyse_projet	
drwxr-x 2 Dada 🛛 Dada	4096 Feb 13 14:50 Dada	
drwxr-x 2 Emma Emma	4096 Feb 26 21:16 Emma	
drwxr-x 2 leyla leyla	4096 Feb 13 14:47 leyla	
drwxr-x 2 mey mey	4096 Feb 13 14:49 mey	
drwxr-x 2 nene nene	4096 Feb 13 14:52 nene	
drwxr-x 2 Olivia Olivia	4096 Feb 26 22:23 Olivia	
drwxr-x 2 seby seby	4096 Feb 13 14:54 seby	
drwxr-x 2 Sophia Sophia	4096 Feb 26 21:16 Sophia	

• A directory that does not exist



Display the contents for the directories you have entered

(See the screenshot below where the script has been executed 3 times to check for the Three

different directory names as the test input