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10/31/25

CYSE 270

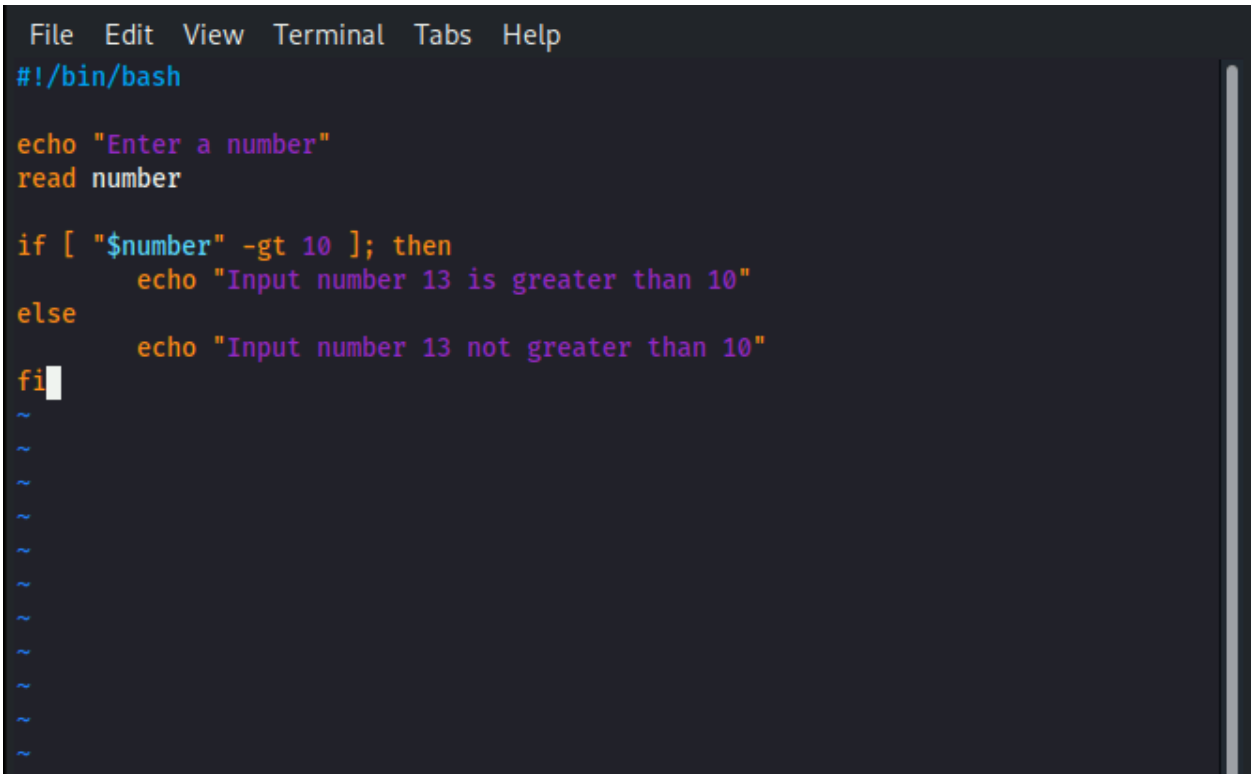
Assignment 8 – Shell Script

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, vi 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 greater 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)



```
┌──(student㉿kali.example.com)-[~]
└─$ ./mama.sh
Enter a number
13
Input number 13 is greater than 10
```

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 name in step-1.

File Edit View Terminal Tabs Help

```
#!/bin/bash

echo "Enter the name of the file or directory:"
read filename

if [ -d "$filename" ]; then
        echo "Directory exists"
elif [ -f "$filename" ]; then
        echo "It is a regular file, and the file exists"
        cat "$filename"
else
        echo "File does not exists. Creating the file ..."
        touch "$filename"
        echo "Bryce Baxter" > "$filename"
        echo "File created and name added to the file. Here is the content:"
        cat "$filename"
fi
~
```

```
┌──(student㉿kali.example.com)-[~]
└─$ vi dama.sh

┌──(student㉿kali.example.com)-[~]
└─$ chmod +x dama.sh
```

```
┌──(student㉿kali.example.com)-[~]
└─$ ./dama.sh
Enter the name of the file or directory:
mama.sh
It is a regular file, and the file exists
#!/bin/bash

echo "Enter a number"
read number

if [ "$number" -gt 10 ]; then
        echo "Input number 13 is greater than 10"
else
        echo "Input number 13 not greater than 10"
fi
```

(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)

```
┌──(student㉿kali.example.com)-[~]
└─$ ./dama.sh
Enter the name of the file or directory:
bb003.txt
It is a regular file, and the file exists
Bryce Baxter
```

```
┌──(student㉿kali.example.com)-[~]
└─$ ./dama.sh
Enter the name of the file or directory:
test1.txt
File does not exists. Creating the file ...
File created and name added to the file. Here is the content:
Bryce Baxter
```