CYSE Lab 8

Task A:


```
┌──(demetrius㉿kali)-[~]
└─$ vi taskAscript.sh

┌──(demetrius㉿kali)-[~]
└─$ chmod +x taskAscript.sh

┌──(demetrius㉿kali)-[~]
└─$
```

```
#!/bin/bash

echo "Enter a number" #Lets the user know what to do
read num #Takes the input of the user and stores it in the variable num
echo "Your number is $num" #Prints the number variable in the echo statemnet. This is used to make sure the code is
 storing the number correctly.
if [ $num -lt 10 ]; then #If statement that checks if the number is greater than 10
        echo "Input number is greater than 10"
else
        echo "Input number is not greater than 10"
fi
```

```
┌──(demetrius㉿kali)-[~]
└─$ ./taskAscript.sh
Enter a number
4
Your number is 4
Input number is greater than 10

┌──(demetrius㉿kali)-[~]
└─$ ./taskAscript.sh
Enter a number
11
Your number is 11
Input number is not greater than 10

┌──(demetrius㉿kali)-[~]
└─$
```

Task B:

```
┌──(demetrius㉿kali)-[~]
└─$ vi taskBscript.sh

┌──(demetrius㉿kali)-[~]
└─$ chmod +x taskBscript.sh

┌──(demetrius㉿kali)-[~]
└─$ 
```

```bash
#!/bin/bash
read -p "Input file or directory name: " name # Prompts the user for a file name or directory name

if [ -f "$name" ]; then # Checks if the variable is a file
        echo "It is a regular file, and the file exists."
elif [ -d "$name" ]; then # Checks if the variable is a directory
        echo "It is a directory, and it exists."
else # If neither file or directory, this code executes, creating a new file.
        echo "File does not exist. Creating new file."
        touch $name
fi
if [ -f $name ]; then # Checks if the variable is a file, if not a file, does nothing.
        read -p "Enter your name: " nameuser # Prompts for the users name
        echo "$nameuser" > $name # Puts the users name in the file
fi
cat $name # Outputs files contents.
~
~
~
~
~
~
```

```
┌──(demetrius㉿kali)-[~]
└─$ vi taskBscript.sh

┌──(demetrius㉿kali)-[~]
└─$ ./taskBscript.sh
Input file or directory name: laugh.txt
It is a regular file, and the file exists.
Enter your name: Demetrius Evans
Demetrius Evans

┌──(demetrius㉿kali)-[~]
└─$ ls
01299748.hash       Desktop    Downloads      laught.txt    practicefile.txt    shadow          variable3.sh
archive.tar         dir1       error_log.txt  laugh.txt     practice_folder     taskAscript.sh  variable.sh
copyright_cyse270   dir2       file1          Music         practice_quit.txt   taskBscript.sh  Videos
cyse270.txt         dir3       file2          Public        Templates
data                display.sh fruits.txt     new_folder    rockyou.txt         text.txt
demo.txt            Documents  groupfile.txt  Pictures      script2.sh          variable2.sh

┌──(demetrius㉿kali)-[~]
└─$ ./taskBscript.sh
Input file or directory name: haha.txt
File does not exist. Creating new file.
Enter your name: Demetrius Evans
Demetrius Evans

┌──(demetrius㉿kali)-[~]
└─$ ls
01299748.hash       Desktop    Downloads      haha.txt      Pictures            script2.sh      variable2.sh
archive.tar         dir1       error_log.txt  laught.txt    practicefile.txt    shadow          variable3.sh
copyright_cyse270   dir2       file1          laugh.txt     practice_folder     taskAscript.sh  variable.sh
cyse270.txt         dir3       file2          Music         practice_quit.txt   taskBscript.sh  Videos
data                display.sh fruits.txt     name.txt      Public              Templates
demo.txt            Documents  groupfile.txt  new_folder    rockyou.txt         text.txt
```

```
┌──(demetrius㉿kali)-[~]
└─$ ./taskBscript.sh
Input file or directory name: /home
It is a directory, and it exists.
cat: /home: Is a directory

┌──(demetrius㉿kali)-[~]
└─$
```