CYSE 270: Linux System for Cybersecurity

Lab 8 - Shell Scripting

(Total 100 Points)

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.

Task A (Correct script (25 points) + result/output after executing the script (25 points)- Take your MIDAS/name

Write a script like below that reads MIDAS/name and displays the message (for example, the screenshot

here), if the following requirements are satisfied:

- 1. Only lower-case letter [a-z] are allowed
- 2. MIDAS/name must be between 4 to 8 characters

Test your script with the following examples:

- Your MIDAS /name with one upper case
- A string less than 4 characters
- A string longer than 8 characters
- Your MIDAS/name in lower case, between 4-8 characters in length

```
(brandon® PearsonKali)-[~]
$ vi homework8.sh

(brandon® PearsonKali)-[~]
$ chmod a+x homework8.sh
File System
```

```
$\frac{\text{brandon} \text{Pearsonkat1} - [\times]}{\text{ls -l homework8.sh}}$
-rwxr-xr-x 1 brandon brandon 301 Mar 16 22:05 homework8.sh
```

```
./homework8.sh
Enter your MIDAS ID
car
MIDAS ID must be between 4 to 8 characters in length and all lower cas
overeightssefsgesg
MIDAS ID must be between 4 to 8 characters in length and all lower cas
bpear
Thank you, you have entered correct pattern for the MIDAS ID
```

Task B (Correct script (25 points) + result/output after executing the script (25 points) - Create a new directory

Write a shell script like below, that performs the following task:

- 1. Reads the name of the directory.
- 2. Check whether the given input is a directory or regular file.
- 3. If the input is a directory and exists, then display the message "Directory exists. Do not create".
- a. (Extra credit: 10 points) Display the contents for that directory)
- 4. If the input is a regular file, then display the message "It is a regular file. Do not create".
- 5. If the given input name in step-1 doesn't exist, then create the new directory with the given name in step-1.

(Sample screenshot for executing the script is shown below)

```
(brandon® PearsonKali)-[~]
$ vi create_dir.sh

(brandon® PearsonKali)-[~]
$ ls -l create_dir.sh
-rwxr-xr-x 1 brandon brandon 317 Mar 16 23:19 create_dir.sh
```

```
(brandon® PearsonKali)-[~]
$ ./create_dir.sh
Enter the directory name
test_dirr
file doesn't exist, creating now
directory created

(brandon® PearsonKali)-[~]
$ ./create_dir.sh
Enter the directory name
/home
directory exists. Do not create.

(brandon® PearsonKali)-[~]
$ ./create_dir.sh
Enter the directory name
/etc/passwd
It is a regular file. Do not create.
```