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CYSE 270

Lab 8 Assignment

Shell Scripting

Task A

Step 1 and Step 2 in the following screenshots.

```
  GNU nano 6.2                    ValidateyourMIDASID.sh *
#!/bin/bash

echo "Enter your MIDASID: "
read MIDASID

while echo $MIDASID | egrep -v "^[a-z]{4,8}$" > /dev/null 2>&1
do
        echo "You must enter a valid MIDAS ID - 4 to 8 lowercase letters and n>
        echo "Enter your MIDAS ID: "
        read MIDASID
done
echo "Your input has been validated!"
```

```
root@maxey-VirtualBox:/home/maxey# vi ValidateyourMIDASID.sh
root@maxey-VirtualBox:/home/maxey# ./ValidateyourMIDASID.sh
Enter your MIDASID:
KMax
You must enter a valid MIDAS ID - 4 to 8 lowercase letters and no numbers
Enter your MIDAS ID:
kmaximus1
You must enter a valid MIDAS ID - 4 to 8 lowercase letters and no numbers
Enter your MIDAS ID:
km
You must enter a valid MIDAS ID - 4 to 8 lowercase letters and no numbers
Enter your MIDAS ID:
kmaxe
Your input has been validated!
root@maxey-VirtualBox:/home/maxey#
```

Step 1-Step 5 in the following screenshots.

```
  GNU nano 6.2                    Directory_search.sh *
#!/bin/bash
echo "Enter the directory"
read ndir
if [ -d "$ndir" ]
then
        echo "Directory exists. Do not create"
        ls -l $ndir
elif [ -f "$ndir" ]
then
        echo "This is a regular file. Do not create"
else
        echo "This is not a directory!"
        mkdir $ndir
        echo "Directory created"
fi
```

```
root@maxey-VirtualBox:/home/maxey# ./Directory_search.sh
Enter the directory
kmaxe003
Directory exists. Do not create
total 4
-rw-r--r-- 1 maxey maxey 2887 Feb  4 13:35 passwd
root@maxey-VirtualBox:/home/maxey# ./Directory_search.sh
Enter the directory
passwd
This is a regular file. Do not create
root@maxey-VirtualBox:/home/maxey#
```

```
root@maxey-VirtualBox:/home/maxey# ./Directory_search.sh
Enter the directory
Maximus
This is not a directory!
Directory created
root@maxey-VirtualBox:/home/maxey# ls -l
total 136724
-rw-r--r-- 1 maxey maxey      5285 Jan 31 19:24 copyright_cyse270
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Desktop
-rwxr-xr-x 1 root  root        276 Mar 14 19:10 Directory_search.sh
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Documents
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Downloads
drwxrwxr-x 4 maxey maxey      4096 Feb 12 14:34 Hob0Rules
drwxrwxr-x 2 maxey maxey      4096 Feb  4 14:03 kmaxe003
-rw-rw-r-- 1 maxey maxey       794 Feb 12 15:17 kmaxe003.hash
-rw-rw-r-- 1 maxey maxey        66 Feb 12 16:23 kmaxe003.txt
drwxr-xr-x 2 root  root       4096 Mar 14 19:14 Maximus
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Music
-rw-r--r-- 1 maxey maxey      2887 Feb  4 13:34 passwd
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Pictures
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Public
-rw-rw-r-- 1 maxey maxey 139921525 Feb 12 14:35 rockyou.txt
-rwxr-xr-x 1 root  root        258 Mar 14 18:30 search.sh
drwx------ 6 maxey maxey      4096 Feb 12 14:50 snap
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Templates
-rwxr-xr-x 1 root  root        291 Mar 13 20:49 ValidateyourMIDASID.sh
drwxr-xr-x 2 maxey maxey      4096 Jan 15 12:00 Videos
root@maxey-VirtualBox:/home/maxey#
```

Extra Credit

Steps 1 through Step 3 in the following screenshots.

```
  GNU nano 6.2                              check_file.sh
#!/bin/bash
#check_file.sh

echo "Enter your Directory Name"
read input

if [ -n "$input" ] && [ -d "$input" ]
then
        echo "Directory Exists"
else
        echo "Invalid File Directory"
fi
```

```
root@maxey-VirtualBox:/home/maxey# ./check_file.sh
Enter your Directory Name
/etc/systemd
Directory Exists
root@maxey-VirtualBox:/home/maxey# ./check_file.sh
Enter your Directory Name
/home
Directory Exists
root@maxey-VirtualBox:/home/maxey# ./check_file.sh
Enter your Directory Name
I read therefore I exist
Invalid File Directory
root@maxey-VirtualBox:/home/maxey#
```