LAB ASSIGNMENT-3

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Course Code: CSLR42

Subject: Operating Systems Lab

Submitted by:

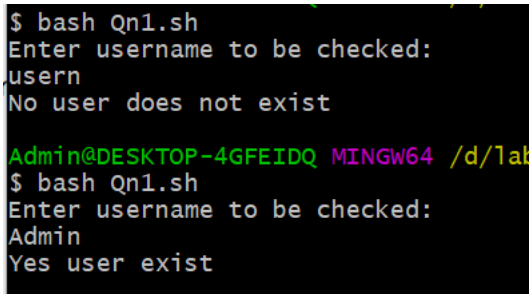
Roll Number: 106120030

Name: Devipriya Sozharajan

Class: Btech CSE-B

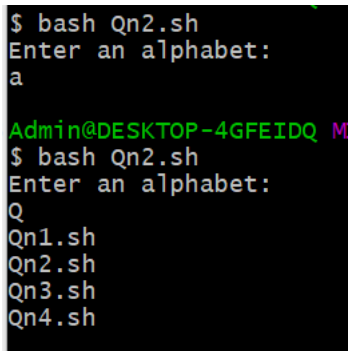
1. Write a Shell script to read a user name and to find whether the user is currently logged or not.

```
#!/bin/sh

echo "Enter username to be checked: "

read userName

usr="$(id -u -n)"   #usr holds the current user id

if [[ $usr == $userName ]]; then

   echo "Yes user exist"

else

   echo "No user does not exist"

fi
```



2. Write a Shell script that accepts an alphabet from the user and displays all filenames starting with that alphabet in the current working directory.

```
echo "Enter an alphabet: "

read alp

ls -a | grep "^$alp"
```



3. Write a Shell script to find whether the file has execute permission or not (without using test command).

```
#!/bin/sh
echo "Enter file name: "
read filename
filePermission="$(stat -c %A $filename)"
if [[ ${filePermission:3:1} == "x" ]]
then
    echo "$filename has execute permission"
else
    echo "$filename don't have execute permission"
fi
```

```
$ bash Qn3.sh
Enter file name:
Qn1.sh
Qn1.sh has execute permission
```

4. Write a Shell script to find the file with the maximum size in the current working directory. (without using sort command)

```
max=0
filename=''
for FILE in *;
do   #stat used to get file details
   size=$(stat -c %s $FILE)
   if [ $size -ge $max ]
   then #compare and find largest file
      max=$size
      filename=$FILE
   fi
done
echo "$filename is the largest file with size $max bytes"
```

```
$ bash Qn4.sh
Qn4.sh is the largest file with size 288 bytes
```