SHELL PROGRAMMING LAB

ASSIGNMENT -16

SUBMITTED BY:

AYUSH KUMAR JHA

SAP ID - 500086400

Enrollment no - R200220083

B.C.A -I.O.T.

SUBMITTED TO:

Dr. Dhiviya Rose

Assignment Content

EXPERIMENT – 13 in Manual
TITLE: Shell Scripts with data and time
Activities:

1. Write a shell script that determines the period for which a specified user is working on the system.

```
root@Ayush500086400:~/Desktop/lab16# cat q1.sh
#!/bin/bash
word= 'w'
echo "$word"
root@Ayush500086400:~/Desktop/lab16# bash q1.sh
 04:05:37 up 12:05,  1 user,  load average: 0.24, 0.14, 0.10
USER     TTY      FROM             LOGIN@   IDLE   JCPU   PCPU WHAT
root     :1       :1               18Nov22 ?xdm?   3:02   0.01s /usr/libe
```

2. Write a shell script that accepts two integers as its arguments and computers the value of first number raised to the power of the second number.

```
root@Ayush500086400:~/Desktop/lab16# cat q2.sh

i=1
total=1
while [ $i -le $2 ]
do
        total=$((total*$1))
        i=$((i+1))
done
echo "First no is : " $1
echo "Second NUmber is : " $2
echo "Result :" $total
root@Ayush500086400:~/Desktop/lab16# bash q2.sh 10 2
First no is :  10
Second NUmber is :  2
Result : 100
root@Ayush500086400:~/Desktop/lab16#
```

3. Write shell script that takes a login name as command – line argument and reports when that person logs in.

```
root@Ayush500086400:~/Desktop/lab16# cat q3.sh

echo "Your input user name is " $1
if [ $1 == $USER ]
then
        echo "$USER logged in at $(date)" | tee -a "/tmp/$USER.log"
else
        echo "$1 Not Found"
fi
root@Ayush500086400:~/Desktop/lab16# bash q3.sh root
Your input user name is  root
root logged in at Fri Nov 25 04:39:34 AM CST 2022
root@Ayush500086400:~/Desktop/lab16#
```

4. Write a awk script to find the number of characters, words and lines in a file? 16 linked list respectively.

```
root@Ayush500086400:~/Desktop/lab16# cat q4.txt

BEGIN{words=0;character=0}
{
        chracter+=length($0)
        words+=NF;
}
END{ print "lines= " NR , "Word= " words , "character= " chracter}
root@Ayush500086400:~/Desktop/lab16# awk -f q4.txt /root/Desktop/lab6/file.txt
lines= 10 Word= 40 character= 214
root@Ayush500086400:~/Desktop/lab16#
```

5. Ask user to enter his complete name (First Name, Middle Name, and Surname). Then, create a string variable that stores user's complete name as a single string. Using this newly created string variable, print a message, "Welcome to this class of Linux and Shell Programming, Mr. user-name."

```
root@Ayush500086400:~/Desktop/lab16# cat q5.sh
read  -p " ENter the first name : " firstname
read  -p " ENter the middle name : " middlename
read  -p " ENter the last name : " lastname

name="$firstname $middlename $lastname "
echo "Welcome to this class of Linux and shell Programming , Mr. $name "
root@Ayush500086400:~/Desktop/lab16# bash q5.sh
 ENter the first name : Ayush
 ENter the middle name : kumar
 ENter the last name : jha
Welcome to this class of Linux and shell Programming , Mr. Ayush kumar jha
root@Ayush500086400:~/Desktop/lab16#
```
