Admission NO.: U19CS009

OS-LAB-ASSIGNMENT-03

1) Write a shell script, which finds the prime factors of a given number.

```
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q1.sh
ENTER NUMBER TO FIND PRIME FACTORS OF IT : 9
THE PRIME FACTORS OF 9 IS/ARE : 3
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q1.sh
ENTER NUMBER TO FIND PRIME FACTORS OF IT : 8
THE PRIME FACTORS OF 8 IS/ARE : 2
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q1.sh
ENTER NUMBER TO FIND PRIME FACTORS OF IT : 7
THE PRIME FACTORS OF 7 IS/ARE :
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q1.sh
ENTER NUMBER TO FIND PRIME FACTORS OF IT : 6
THE PRIME FACTORS OF 6 IS/ARE : 2 3
```

2) Write a shell script that accepts a positive integer value from the user, say 34, and prints out all the divisors of 34 as a list:

Enter a positive integer: 34

The divisors of 34 are: 1, 2, 17, and 34

```
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q2.sh
ENTER NUMBER TO LIST DIVISORS : 100
1 2 4 5 10 20 25 50 100
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q2.sh
ENTER NUMBER TO LIST DIVISORS : 111
1 3 37 111
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q2.sh
ENTER NUMBER TO LIST DIVISORS : 91
1 7 13 91
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q2.sh
ENTER NUMBER TO LIST DIVISORS : 93
1 3 31 93
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q2.sh
ENTER NUMBER TO LIST DIVISORS : 17
1 17
```

3) Write a shell script, which prints good morning or good evening depending on the login time of the user.

brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03\$./q3.sh
TIME TO SLEEP, IT'S 23:39:24 PM NIGHT

4) A shell script, which takes as command line input a number n, and a word. It then prints the word n times, once on each line.

```
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q4.sh 10 "Br
ijesh Rohit"
Brijesh Rohit
```

5) Write a shell script, which finds the total number of blank lines in the given file.

```
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ls
c1.png c3.png c5.png o1.png o3.png q1.sh q3.sh q5.sh
c2.png c4.png file1.txt o2.png o4.png q2.sh q4.sh q6.sh
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ cat file1.txt
1.hey boi!
2.have some fun
3.i'm beggin`
4.beggin` you, so put your loving hands out baby
5.sweet dreams are made up this
6.who am i to disagree
7.i travel the world and seven seas
8.some of them want to use you
brijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q5.sh
ENTER FILE NAME : file1.txt
TOTAL NUMBER OF BLANK LINES : 8
```

6) A shell script, which reports the names and sizes of all the files in a directory whose size exceeds 1000 bytes, in descending order of their sizes and the total number of such files.

```
orijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ls -l
-rw-rw-r-- 1 brijesh brijesh 70605 Aug 17 23:28 cl.png
-rw-rw-r-- 1 brijesh brijesh 16131 Aug 17 23:41 o3.png
-rw-rw-r-- 1 brijesh brijesh 42157 Aug 17 23:43 o4.png
                               451 Aug 17 23:41 q3
 rijesh@brijesh-GF75-Thin-9SCSR:~/Documents/os/OS-ASSIGN-03$ ./q6.sh
ENTER DIRECTORY :
84K
84K
84K
32K
32K
NUMBER OF SUCH FILES : 11
```