

School: SCOPE Semester: WIN 2020-21 Subject: Operating System Lab Subject Code: CSE2008

Assignment 3

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1. Write a shell script/program to display list of files, list of users and to remove a file using three basic case statements.

```
jas@Jaswanth:~$ ls -l

total 48

drwxr-xr-x 6 jas jas 4096 Mar 17 19:41 VIT-AP

-rwxr-xr-x 1 jas jas 312 Mar 22 16:03 b.sh

-rwxr-xr-x 1 jas jas 335 Mar 22 16:23 c.sh

-rwxr-xr-x 1 jas jas 302 Mar 22 15:55 d.sh

-rwxr-xr-x 1 jas jas 60 Mar 16 18:47 jaswa.sh

-rwxr-xr-x 1 jas jas 307 Mar 16 19:24 m.sh

-rwxr-xr-x 1 jas jas 243 Mar 16 19:13 mj.sh

-rwxr-xr-x 1 jas jas 11 Mar 22 16:01 n.sh

-rwxr-xr-x 1 jas jas 150 Mar 16 20:30 o.sh

-rwxr-xr-x 1 jas jas 134 Mar 16 20:47 q.sh

-rwxr-xr-x 1 jas jas 233 Mar 22 16:08 u.sh

-rwxr-xr-x 1 jas jas 149 Mar 16 20:42 z.sh

jas@Jaswanth:~$ chmod 777 b.sh

jas@Jaswanth:~$ bash main.sh

bash: main.sh: No such file or directory

jas@Jaswanth:~$ bash b.sh

b.sh: line 1: o: command not found

is a prime number.

b.sh: line 17: syntax error near unexpected token 'fi'

b.sh: line 17: y fi '

jas@Jaswanth:~$ bash jaswa.sh

Enter your name

Jaswanth
```

2. Write a shell script/program to calculate factorial of a given number using do-while loop

CODE:

OUTPUT:

```
jas@Jaswanth:~$ vi xa.sh
jas@Jaswanth:~$ chmod +x xa.sh
jas@Jaswanth:~$ ./xa.sh
Enter a number
5
120
```

3. Write a shell script/program to calculate sum of all the numbers from 1 to n using for loop.

```
echo "Enter Size(N)"

read N

i=1

sum=0

echo "Enter Numbers"

while [ $i -le $N ]

do

read num #get number

sum=$((sum + num)) #sum+=num

i=$((i + 1))

done

echo $sum
```

OUTPUT:

```
jas@Jaswanth:~$ vi fg.sh
jas@Jaswanth:~$ chmod +x fg.sh
jas@Jaswanth:~$ ./fg.sh
Enter Size(N)
6
Enter Numbers
6
8
0
5
3
1
23
```

4. Write a shell script/program to call a user defined function with two numbers as parameter. Return the sum of those two numbers and display the result

OUTPUT:

```
jas@Jaswanth:~$ vi asx.sh
jas@Jaswanth:~$ chmod +x asx.sh
jas@Jaswanth:~$
jas@Jaswanth:~$ ./asx.sh
Sum = 90
```

5. Write a shell script/program to check whether a given number is palindrome or not. [take the number from user input]

OUTPUT:

```
jas@Jaswanth:~$ vi ol.sh
jas@Jaswanth:~$ chmod +x ol.sh
jas@Jaswanth:~$ ./ol.sh
Enter number : 121
Number is palindrome
```

6. . Write a shell script/program to check whether a given number is prime or not. [take the number from user input]

CODE:

OUTPUT:

```
jas@Jaswanth:~$ vi ik.sh
jas@Jaswanth:~$ chmod +x ik.sh
jas@Jaswanth:~$ ./ik.sh
enter number
12
12 is not a prime number.
```