



# EXPERIMENT - 4

## Operating Systems Lab

### AIM

To write the following shell programs:

- Program to check the given input is number or a string.
- Program to compute no. of characters/ words in each line of a file.

Syeda Reeha Quasar

14114802719

6C7

## EXPERIMENT – 4

### Aim:

To write the following shell programs:

- Program to check the given input is a number or a string.
- Program to compute no. of characters/ words in each line of a file.

### Source Code:

#### The program to check the given input is a number or a string.:

```
echo "Program to find input is a string or a number"
echo "Enter the input to check: "
read n
echo "Given input is: "
if [[ $n =~ ^[0-9]*$ ]]
then
    echo "It's number"
else
    echo "Is a String"
fi
```

### Output:

```
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./numOrStr.sh
Program to find input is a string or a number
Enter the input to check:
24
Given input is:
It's number
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./numOrStr.sh
Program to find input is a string or a number
Enter the input to check:
reeha
Given input is:
Is a String
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./numOrStr.sh
Program to find input is a string or a number
Enter the input to check:
reeha1
Given input is:
Is a String
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./numOrStr.sh
Program to find input is a string or a number
Enter the input to check:
2reeha
Given input is:
Is a String
reeha@Reeha:/mnt/e/sem 6/Operating Systems$
```

```
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./numOrStr.sh
Program to find input is a string or a number
Enter the input to check:
12
Given input is:
It's number
```

```
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./numOrStr.sh
Program to find input is a string or a number
Enter the input to check:
reeha
Given input is:
Is a String
```

**Program to compute no. of characters/ words in each line of a file:**

```
echo "Enter the filename"
read file
c=`cat $file | wc -c`
w=`cat $file | wc -w`
l=`grep -c "." $file`
echo Number of characters in $file is $c
echo Number of words in $file is $w
echo Number of lines in $file is $l
```

**Output:**

```
reeha@Reeha:/mnt/e/sem 6/Operating Systems$ ./computeLineCharFile.sh
Enter the filename
test.txt
Number of characters in test.txt is 100
Number of words in test.txt is 20
Number of lines in test.txt is 6
reeha@Reeha:/mnt/e/sem 6/Operating Systems$
```