

## Lab-7

1) Shell script to Count the number of vowels of a string  
Shell script to Count the number of VOWELS OF A STRING

```
echo "ENTER THE STRING"
read str
l='expr length $str'
vowel=0
while [ $l -gt 0 ]
do
temp='expr $str | cut -c $l'
case $temp in
a|A) vowel='expr $vowel + 1' ;;
e|E) vowel='expr $vowel + 1' ;;
i|I) vowel='expr $vowel + 1' ;;
o|O) vowel='expr $vowel + 1' ;;
u|U) vowel='expr $vowel + 1' ;;
esac
l='expr $l - 1'
done
echo "The string has $vowel VOWEL"
```

O/P

ENTER THE STRING

Computer

The string Has 3 VOWEL.

2) Shell script to check number of lines, words, characters in a file.

echo "enter the file name"

read file

if [ -f \$file ]  
then

```
echo "file exists"  
echo "no of lines"  
wc -l $file  
echo "no of characters"  
wc -c $file  
echo "no of words"  
wc -w $file  
else  
echo "file does not exists"  
fi
```

O/P

enter the file name

vowels.sh

file exists

no of lines

17 vowels.sh

no of characters

359 vowels.sh

no of words

79 vowels.sh

3) set

set one two three four

echo \$1

echo \$2

echo \$3

echo \$4

O/P

one

two

three

four

O/P sum  
12/12/22



4) shift

```
echo "no. of arguments: $#"  
echo "The arguments are: $*"   
echo "$1"  
shift  
echo "$1"
```

O/P

```
sh shift.sh aa ab  
no. of arguments: 2  
The arguments are: aa ab  
aa  
ab.
```

5) chown (changes owner of file)

```
chown bmisce first.sh
```

```
ls -l first.txt
```

```
-rw-rw-r-- 1 bmisce bmisce 0 Dec 12 12:59 first.txt
```

6) Trap

```
$trap "echo hello world" SIGINT
```

```
$^c hello world // Now for ctrl+c, hello world  
is printed
```

```
$trap -SIGINT // remove trap
```

7) chmod command

```
$ chmod +x first.txt // make it executable
```

\* chown - shows ownership

```
$ chown root / // change the owner of / to root
```

8) chmod 666 first.txt (absolute)

O/P