

lab-07

1. Shell script to count number of vowels in a string

```
echo "Enter the string"
```

```
read str
```

```
l = 'expr length $str'
```

```
vowel = 0
```

```
while [ $l -gt 0 ]
```

```
do
```

```
temp = 'expr ${str} : 1: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 "$vowel"
```

O/P:

Enter string : abcde

The string has 2 vowels

2. Script to check no. of lines, words, characters in a file

```
echo "Enter file name"
read file
if [-f $file] then
echo "file exists"
echo "no. of lines"
wc -l $file
echo "no. of words"
wc -w $file
echo "no. of characters"
wc -c $file
else
echo "file does not exist"
```

O/P:

Enter file name
no. of vowels.sh

file exists

no. of lines 17

no. of vowels.sh

no. of characters 336

no. of vowels.sh

no. of words 58

no. of vowels.sh

3.

Set

Set ab cd ef gh

echo \$1

echo \$2

echo \$3

echo \$4

O/P:

ab

cd

ef

gh

4. shift

echo "no. of arguments : \$#"

echo "the arguments are \$@"

echo "\$1"

shift

echo "\$1"

O/P:

sh shift.sh ab cd ef

No. of arguments : 3

The arguments: ab cd ef

ab

cd → after shift

5. chown (changes owner of file)

chown bmsce area.sh

6. Trap

trap 'echo Trap command executed' 139

7. chmod (relative)

chmod 754 myfile

8. chgrp

chgrp abc def

9. chmod (absolute)

chmod 666 x.txt