

EXPERIMENT 5:

Write a shell script and C program to perform the following string operations:

a) To extract a substring from a given string.

- \$var
- var="Hello!World"
- echo \$var
- echo \${var:3:9}

```
GNU nano 6.2
$var
var="Hello!world"
echo $var
echo ${var:3:9}

```

```
suraj@surajpandit:~$ ./var.sh
Hello!world
lo!world
suraj@surajpandit:~$
```

b) To find the length of a given string.

- \$var
- var="Hello world"
- echo "\$var"
- echo \${#var}

```
GNU nano 6.2
$var
var="Hello world"
echo "$var"
echo ${#var}

```

```
suraj@surajpandit:~$ nano var_len.sh
suraj@surajpandit:~$ ./var_len.sh
Hello world
11
suraj@surajpandit:~$
```

- Compare the running time of above shell script and C program using the time command.

```
suraj@surajpandit:~$ time ./var.sh
Hello!world
lo!world

real    0m0.002s
user    0m0.002s
sys     0m0.000s
suraj@surajpandit:~$
```