

Experiment5: Write a shell script to perform the following string operations:

(A) To extract a substring from a given string.

Command: nano filename.sh

Script: \$var var= "Hello how
are you" echo \$var echo
\${var:6:7}

Terminal: chmod +x filename

./nameofthefile.sh ,

```
$var  
var="hello how are you"  
echo $var  
echo ${var:6:7}
```

```
sahil@sahil-virtualbox :/mnt/$ nano exp5a.sh  
sahil@sahil-virtualbox :/mnt/$ ./exp5a.sh  
hello how are you  
how are
```

(B) To find the length of a given string.

Command: nano filename.sh **Script:** \$var var= "Hello
how are you" echo "\$var" echo \${#var}

Terminal: chmod +x filename

./nameofthefile.sh

```
$var  
var="Hello how are you"  
echo "$var"  
echo ${#var}
```

```
sahil@sahil-virtualbox :/mnt/$ nano exp5b.sh  
sahil@sahil-virtualbox :/mnt/$ ./exp5b.sh  
Hello how are you  
17
```

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

Command: time ./filename.sh

```
sahil@sahil-virtualbox :/mnt/d$ time ./exp5a.sh
hello how are you
how are

real    0m0.011s
user    0m0.000s
sys     0m0.000s
sahil@sahil-virtualbox :/mnt/d$ time ./exp5b.sh
Hello how are you
17

real    0m0.015s
user    0m0.000s
sys     0m0.000s
```