

# SYSTEM SOFTWARE

## SEMESTER-IV

### LAB SHEET-3

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**Batch:** A2

**1) AIM:**

To understand and perform shell scripting.

**2) EXPERIMENT:**

**A) Print Hello (name)**

\$ nano example.sh

Program-

#!/bin/sh

echo "What is your name?"

read PERSON echo

"Hello, \$PERSON"

\$ ./example.sh zsh: permission

denied: ./example.sh

\$ chmod 777 example.sh

\$ ./example.sh

```
ac2014@ac2014-VirtualBox:~$ cd Desktop/
ac2014@ac2014-VirtualBox:~/Desktop$ touch hello_world.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ls
hello_world.sh  results
ac2014@ac2014-VirtualBox:~/Desktop$ ./hello_world.sh
AC
12 good morning AC 12 3
ac2014@ac2014-VirtualBox:~/Desktop$ chmod u+x hello_world.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./hello_world.sh
AC
12 good morning AC 12 3
ac2014@ac2014-VirtualBox:~/Desktop$ expr 16/4
16/4
ac2014@ac2014-VirtualBox:~/Desktop$ touch number_swap.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./number_swap.sh
bash: ./number_swap.sh: Permission denied
ac2014@ac2014-VirtualBox:~/Desktop$ chmod u+x number_swap.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./number_swap.sh
5 7
7 5
ac2014@ac2014-VirtualBox:~/Desktop$
```

Output:

```
1 echo "AC"
2 greetings="good morning"
3 name="AC"
4 var=$((3+9))
5 var2=$((9-6))
6 echo $var $greetings $name $var $var2
```

B) Addition and Subtraction of two numbers.

```
ac2014@ac2014-VirtualBox:~$ cd Desktop/
ac2014@ac2014-VirtualBox:~/Desktop$ touch hello_world.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ls
hello_world.sh  results
ac2014@ac2014-VirtualBox:~/Desktop$ ./hello_world.sh
AC
12 good morning AC 12 3
ac2014@ac2014-VirtualBox:~/Desktop$ chmod u+x hello_world.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./hello_world.sh
AC
12 good morning AC 12 3
ac2014@ac2014-VirtualBox:~/Desktop$ expr 16/4
16/4
ac2014@ac2014-VirtualBox:~/Desktop$ touch number_swap.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./number_swap.sh
bash: ./number_swap.sh: Permission denied
ac2014@ac2014-VirtualBox:~/Desktop$ chmod u+x number_swap.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./number_swap.sh
5 7
7 5
ac2014@ac2014-VirtualBox:~/Desktop$
```

Output:

```
"AC"
tings="good morning"
="AC"
=$((3+9))
=$((9-6))
$var $greetings $name $var $var2
```

C) Swapping of two nos using the third variable and without the third variable.

```
ac2014@ac2014-VirtualBox:~$ cd Desktop/
ac2014@ac2014-VirtualBox:~/Desktop$ touch hello_world.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ls
hello_world.sh  results
ac2014@ac2014-VirtualBox:~/Desktop$ ./hello_world.sh
AC
12 good morning AC 12 3
ac2014@ac2014-VirtualBox:~/Desktop$ chmod u+x hello_world.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./hello_world.sh
AC
12 good morning AC 12 3
ac2014@ac2014-VirtualBox:~/Desktop$ expr 16/4
16/4
ac2014@ac2014-VirtualBox:~/Desktop$ touch number_swap.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./number_swap.sh
bash: ./number_swap.sh: Permission denied
ac2014@ac2014-VirtualBox:~/Desktop$ chmod u+x number_swap.sh
ac2014@ac2014-VirtualBox:~/Desktop$ ./number_swap.sh
5 7
7 5
ac2014@ac2014-VirtualBox:~/Desktop$
```

Output:

```
hello_world.sh

1 var1=5
2 var2=7
3 echo $var1 $var2
4 var3=$var1
5 var1=$var2
6 var2=$var3
7 echo $var1 $var2
8
```