Name:	Sufyan Ahmed Mughal
SAP: Course:	55766 Operating System (BSSE)
Section:	5-2

# **LAB 09**

## **Task 01:**

```
sufyanahmed@55766:~$ cd Downloads/
sufyanahmed@55766:~/Downloads$ mkdir lab9
sufyanahmed@55766:~/Downloads$ cd lab9
sufyanahmed@55766:~/Downloads/lab9$ touch lab9.sh
sufyanahmed@55766:~/Downloads/lab9$ touch lab9.sh
sufyanahmed@55766:~/Downloads/lab9$ cat>lab9.sh
echo "welcome to shell scripting"
echo "this is lab 9"
sufyanahmed@55766:~/Downloads/lab9$ chmod u+x lab9.sh
sufyanahmed@55766:~/Downloads/lab9$ ./lab9.sh
welcome to shell scripting
this is lab 9
```

#### **Task 02:**

```
sufyanahmed@55766:~/Downloads/lab9$ cat>lab9.sh
#!/bin/sh

date # todays date
echo -r "this is lab 9 by using magic command " #message
cat<lab9.sh #print the code of this file
sufyanahmed@55766:~/Downloads/lab9$ ./lab9.sh
Mon Oct 27 11:50:23 PM PDT 2025
-r this is lab 9 by using magic command
#!/bin/sh

date # todays date
echo -r "this is lab 9 by using magic command " #message
cat<lab9.sh #print the code of this file</pre>
```

### **Task 03:**

```
sufyanahmed@55766:~/Downloads/lab9$ expr 2+5
2+5
sufyanahmed@55766:~/Downloads/lab9$
sufyanahmed@55766:~/Downloads/lab9$ expr 2 + 5
7
sufyanahmed@55766:~/Downloads/lab9$ expr 2 + 3 / 3
3
```

# **Task 04:**

```
sufyanahmed@55766:~/Downloads/lab9$ touch lab9task4.sh

sufyanahmed@55766:~/Downloads/lab9$ cat>lab9task4.sh
#/bin/sh
x=5
y=0
echo "The vlaue of x=" $x
y=$(expr $x + 5)
echo "The value of y=" $y
sufyanahmed@55766:~/Downloads/lab9$ ./lab9task4.sh
The vlaue of x= 5
The value of y= 10
```

#### **Task 05:**

```
sufyanahmed@55766:~/Downloads/lab9$ touch lab9task5.sh
sufyanahmed@55766:~/Downloads/lab9$ cat>lab9task5.sh
#/bin/sh
echo "Enter first number: "
read a
echo "Enter second number: "
read b
sum=\$(expr "\$a" + "\$b")
echo "The sum of $a and $b is: $sum"
sufyanahmed@55766:~/Downloads/lab9$ ./lab9task5.sh
bash: ./lab9task5.sh: Permission denied
sufyanahmed@55766:~/Downloads/lab9$ chmod u+x lab9task5.sh
sufyanahmed@55766:~/Downloads/lab9$ ./lab9task5.sh
Enter first number:
Enter second number:
The sum of 2 and 5 is: 7
```

# **Task 06:**

```
sufyanahmed@55766:~/Downloads/lab9$ touch lab9task6.sh
sufyanahmed@55766:~/Downloads/lab9$ cat>lab9task6.sh
#!/bin/sh
a=5
b=7
c=5.5
result=$(echo "scale=4; ($a + $b) / $c" | bc -l)
echo "a= $a, b= $b, c= $c"
echo "Result (a*b/c) = $result"
```

```
sufyanahmed@55766:~/Downloads/lab9$ chmod u+x lab9task6.sh
sufyanahmed@55766:~/Downloads/lab9$ ./lab9task6.sh
a= 5, b= 7, c= 5.5
Result (a*b/c) = 2.1818
```

## **Task 07:**

## sufyanahmed@55766:~/Downloads/lab9\$ touch lab9task7.sh