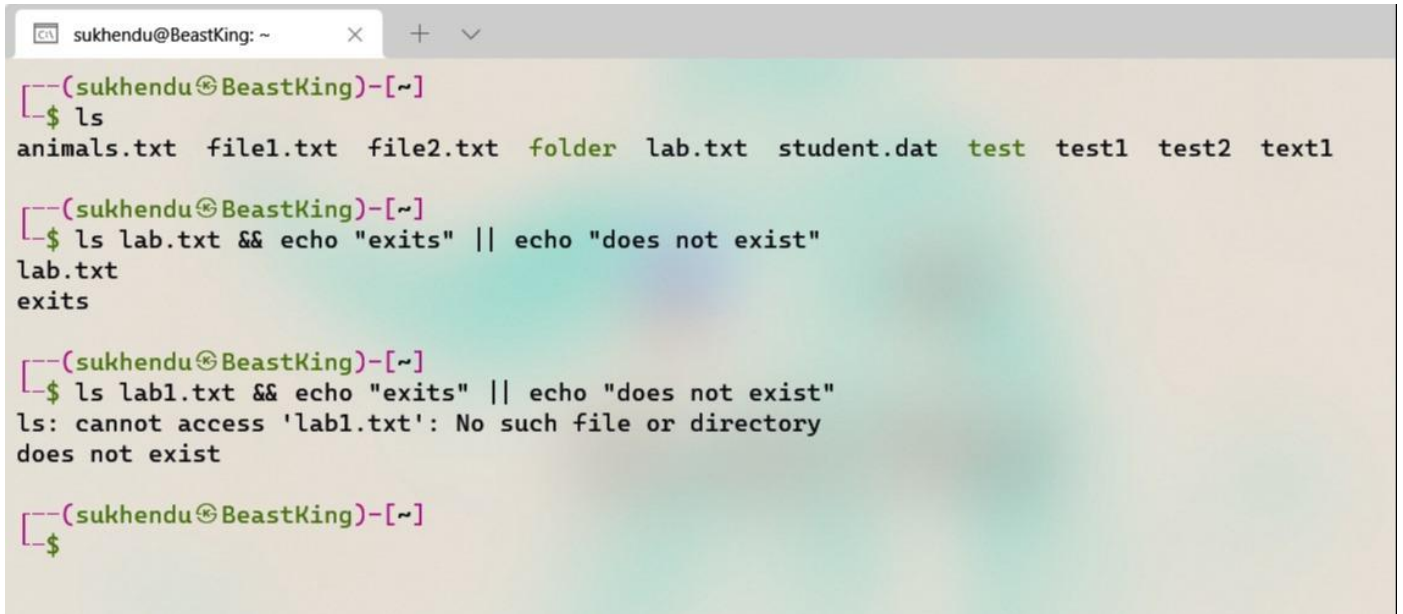


LAB-3 Assignment

Q1. Determine if a file exists or not using and without using test command.

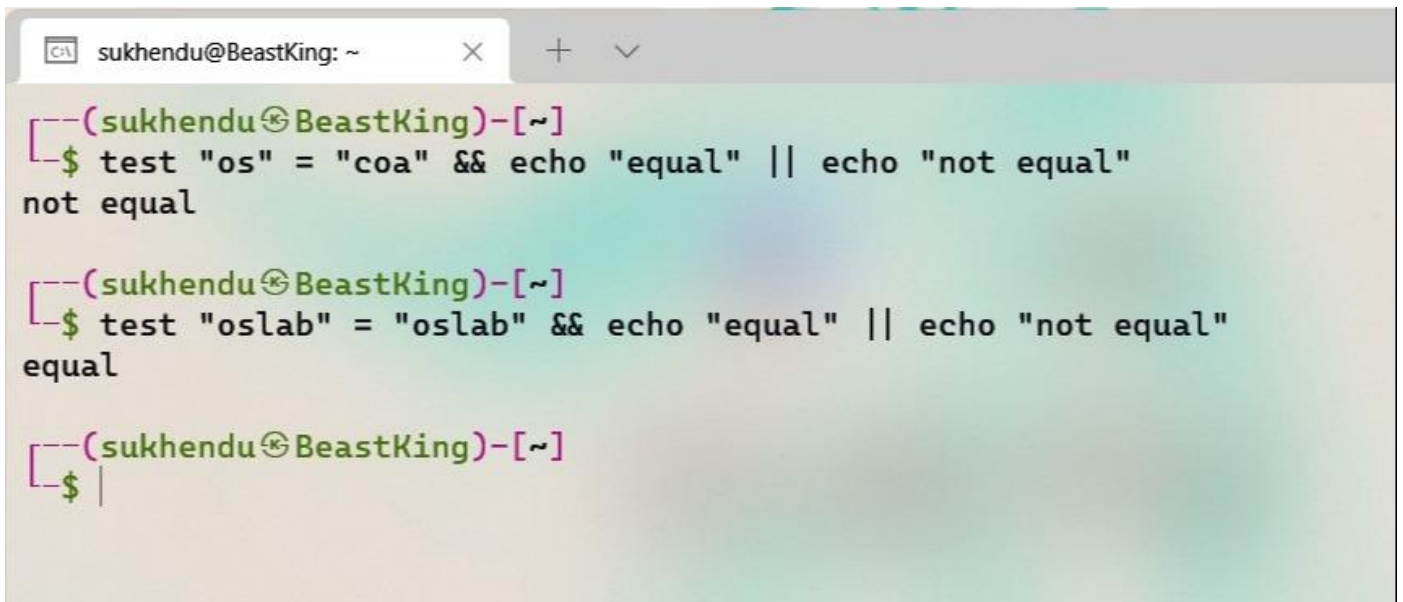
Syntax: `ls filename && echo "exists" || echo "does not exist"`



```
sukhendu@BeastKing: ~  
[--(sukhendu@BeastKing)-[~]  
$ ls  
animals.txt  file1.txt  file2.txt  folder  lab.txt  student.dat  test  test1  test2  text1  
  
[--(sukhendu@BeastKing)-[~]  
$ ls lab.txt && echo "exists" || echo "does not exist"  
lab.txt  
exists  
  
[--(sukhendu@BeastKing)-[~]  
$ ls lab1.txt && echo "exists" || echo "does not exist"  
ls: cannot access 'lab1.txt': No such file or directory  
does not exist  
  
[--(sukhendu@BeastKing)-[~]  
$
```

2. Compare two strings using test command.

Syntax: `test "string"="string" && echo "equal" || echo "not equal"`



```
sukhendu@BeastKing: ~  
[--(sukhendu@BeastKing)-[~]  
$ test "os" = "coa" && echo "equal" || echo "not equal"  
not equal  
  
[--(sukhendu@BeastKing)-[~]  
$ test "oslab" = "oslab" && echo "equal" || echo "not equal"  
equal  
  
[--(sukhendu@BeastKing)-[~]  
$ |
```

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3. Write a shell script to add two numbers given by users.

```
sukhendu@BeastKing: ~  
[--(sukhendu@BeastKing)-[~]  
$ ls  
addTwoNum.sh  animals.txt  file1.txt  file2.txt  folder  lab.txt  student.dat  test  test1  test2  text1  
[--(sukhendu@BeastKing)-[~]  
$ cat addTwoNum.sh  
#!/bin/bash  
  
read -p "Enter first number: " num1  
read -p "Enter second number: " num2  
  
sum=$(( $num1 + $num2 ))  
  
echo "Sum is: $sum"  
[--(sukhendu@BeastKing)-[~]  
$ chmod +x addTwoNum.sh  
[--(sukhendu@BeastKing)-[~]  
$ ls  
addTwoNum.sh  animals.txt  file1.txt  file2.txt  folder  lab.txt  student.dat  test  test1  test2  text1  
[--(sukhendu@BeastKing)-[~]  
$ ./addTwoNum.sh  
Enter first number: 10  
Enter second number: 20  
Sum is: 30  
[--(sukhendu@BeastKing)-[~]  
$ ./addTwoNum.sh  
Enter first number: 45  
Enter second number: 45  
Sum is: 90
```

4. Practice chmod command and all its parameters.

Syntax : chmod [reference][operator][mode] file...

```
sukhendu@BeastKing: ~/day3  
$ ls -l test.txt  
-rw-r--r-- 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt  
[--(sukhendu@BeastKing)-[~/day3]  
$ echo "changing file permission"  
changing file permission  
[--(sukhendu@BeastKing)-[~/day3]  
$ chmod u+rw test.txt  
[--(sukhendu@BeastKing)-[~/day3]  
$ ls -l test.txt  
-rw-r--r-- 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt  
[--(sukhendu@BeastKing)-[~/day3]  
$ chmod a+w test.txt  
[--(sukhendu@BeastKing)-[~/day3]  
$ ls -l test.txt  
-rw-rw-rw- 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt
```

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```
(sukhendu@BeastKing)-[~/day3]
$ chmod o-w test.txt

(sukhendu@BeastKing)-[~/day3]
$ ls -l test.txt
-rw-rw-r-- 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt

(sukhendu@BeastKing)-[~/day3]
$ chmod 654 test.txt

(sukhendu@BeastKing)-[~/day3]
$ ls -l test.txt
-rw-r-xr-- 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt
```

```
sukhendu@BeastKing: ~/day3
(sukhendu@BeastKing)-[~/day3]
$ chmod 100 test.txt

(sukhendu@BeastKing)-[~/day3]
$ ls -l test.txt
---x----- 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt

(sukhendu@BeastKing)-[~/day3]
$ chmod 001 test.txt

(sukhendu@BeastKing)-[~/day3]
$ ls -l test.txt
-----x 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt

(sukhendu@BeastKing)-[~/day3]
$ chmod 777 test.txt

(sukhendu@BeastKing)-[~/day3]
$ ls -l test.txt
-rwxrwxrwx 1 sukhendu sukhendu 0 Mar 15 23:03 test.txt
```

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