Operating Systems Lab

Fall 2024

Lab Task 09:

Shell Scripting – Basics

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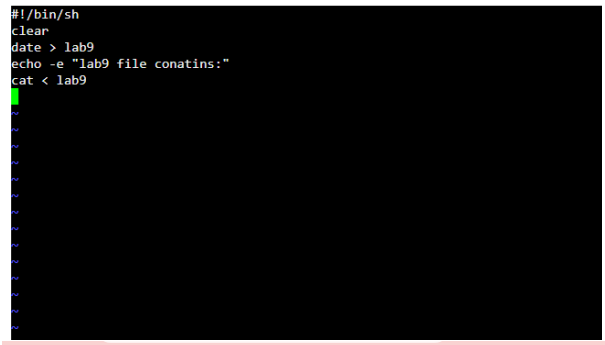
Lab Task 09

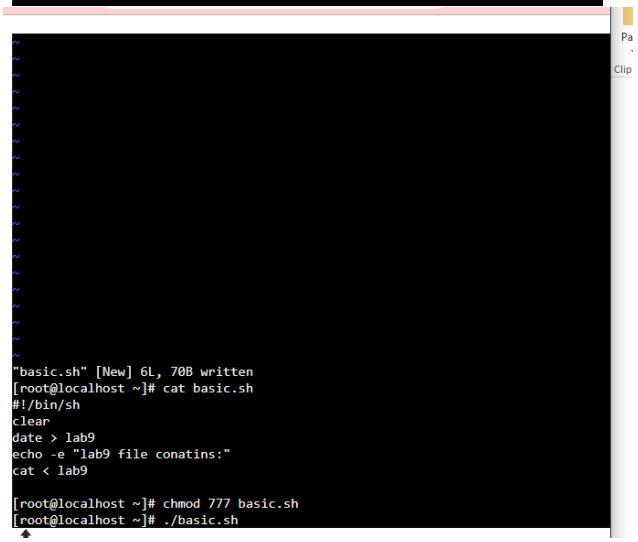
Note: Your all exercises should be well commented.

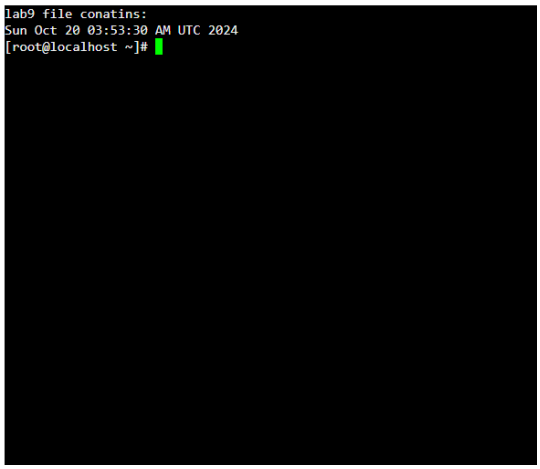
Exercise 1:

Run following script. And examine output. **01**

```
#!/bin/sh
clear
date > lab9
echo -e "lab9 file contains:"
cat < lab9
```



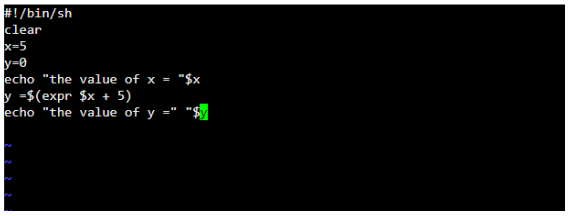




Exercise 2:

A file contains following script. Execute this code. **01**

```
#!/bin/sh
clear
x=5
y=0
echo "The value of X = " $x
y=$(expr $x + 5)
echo "The value of Y = " $y
```



```
the value of x = 5
./basic.sh: line 6: 10: command not found
the value of y = 0
[root@localhost ~]#
```

Exercise 3:

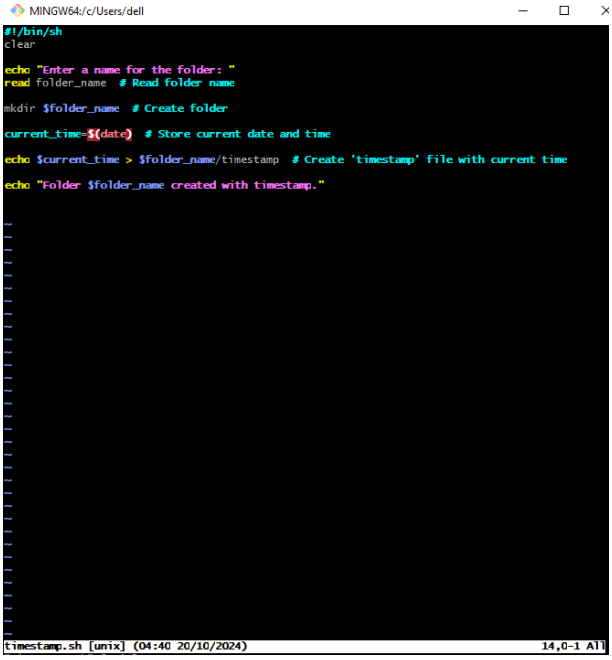
Write shell script that reads 2 integer values from user and print their sum on screen. **02**

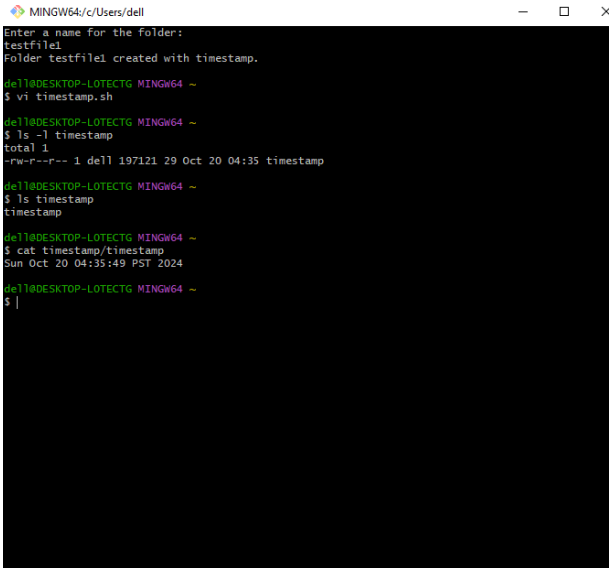
```
#!/bin/bash
echo ` expr 6 + 8 `
```

```
"basic.sh" 3L, 33B written
[root@localhost ~]# chmod 777 basic.sh
[root@localhost ~]# ./basic.sh
14
[root@localhost ~]#
```

Exercise 4:

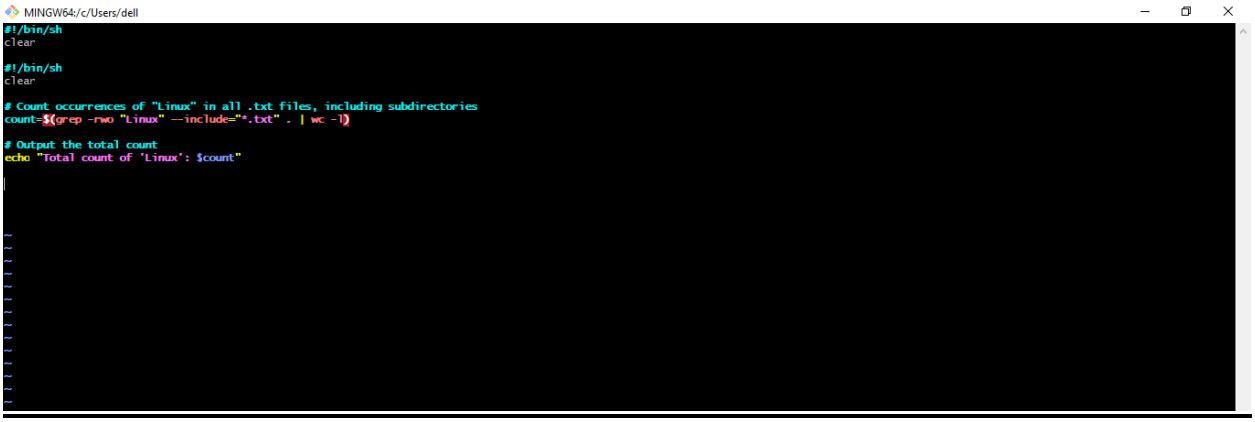
Write shell script that takes string from user, and make folder with named with string. Folder should contain file with named timestamp. Having current time and date written on it. **02**

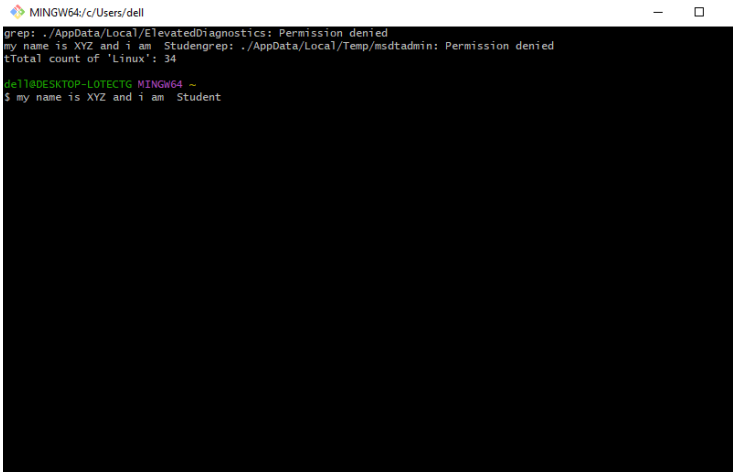




Exercise 5:

Write a shell script to get the total count of the word “Linux” in all the “.txt” files and also across files present in subdirectories.





Exercise 6:

Write shell script that defines 2 integers and one float value like
a=5
b=7
c=5.5
Perform multiplication of integers then divide with float.
and finally print result with four decimal places. like 6.3636
you have to use pipe operator (|) to send variables to **bc** utility for arithmetic. **02**

Total Marks: 10