Operating System Principles **Prashanth.S**

19MID0020

1) Study of basic linux commands

1)ls

2) cd Desktop

3) pwd

3) cd ..

4) whoami

5) uname

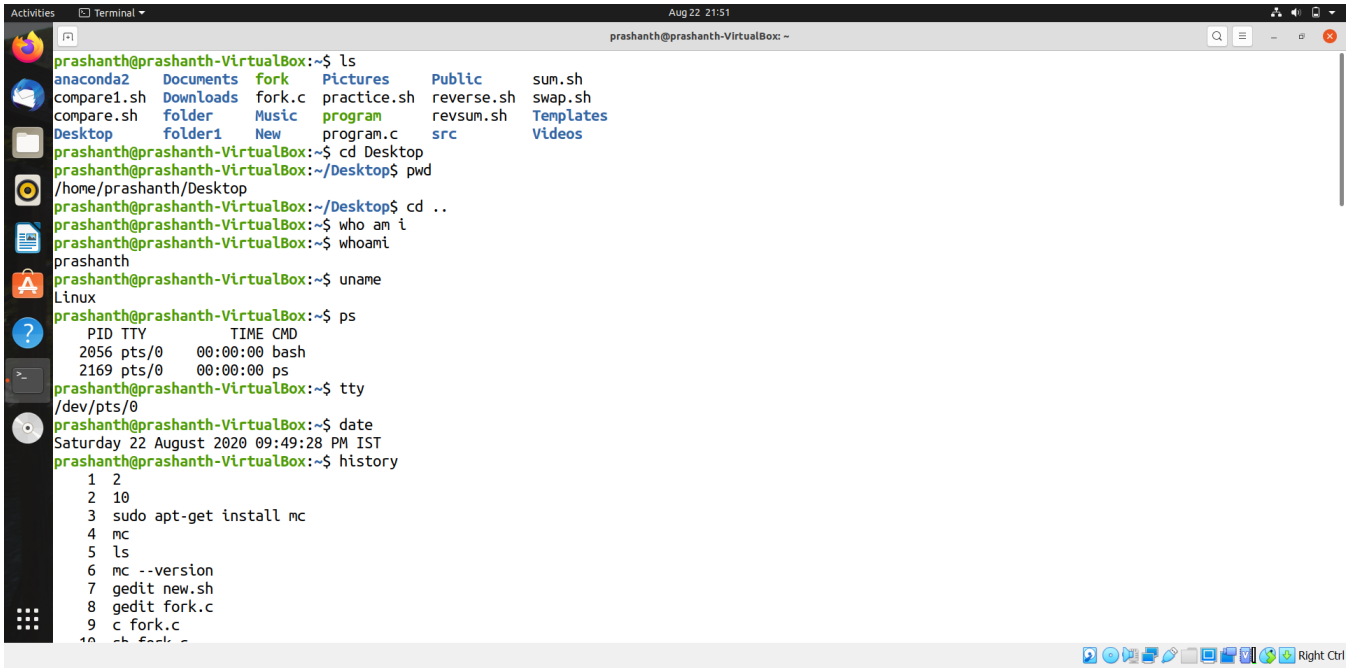
6) ps

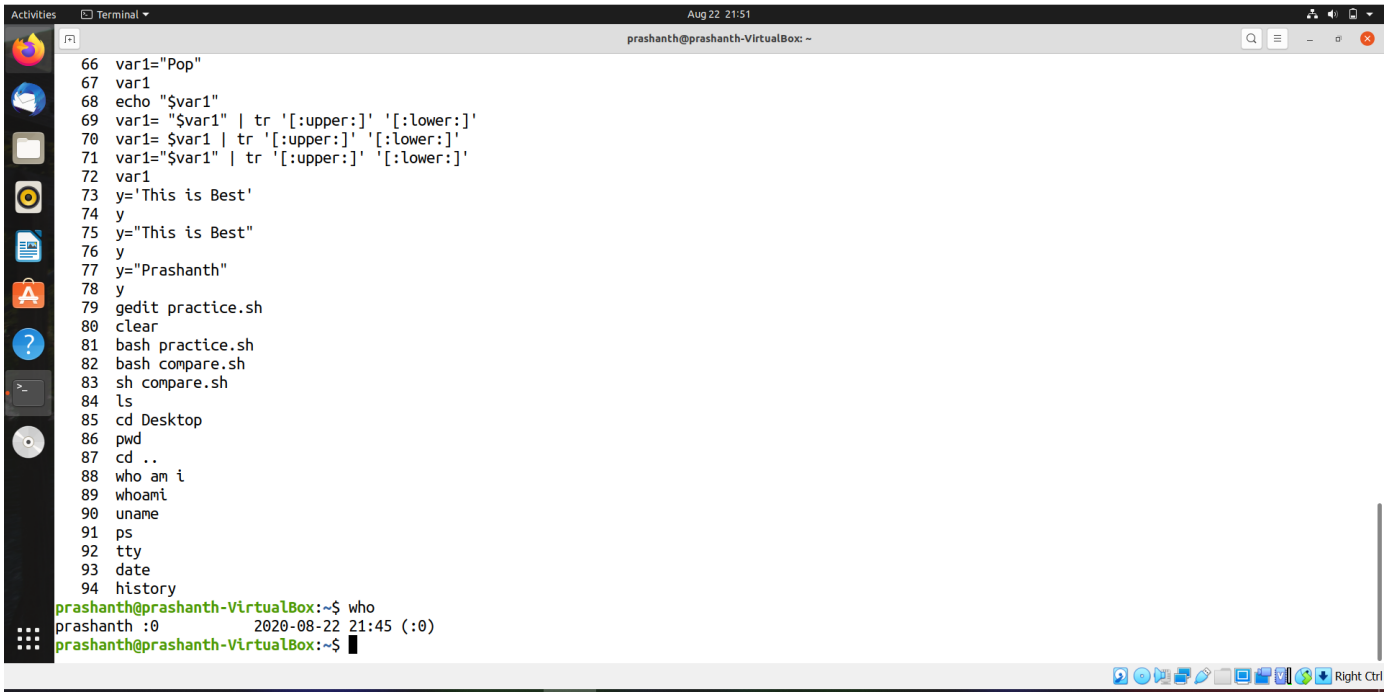
7) tty

8) date

9) history

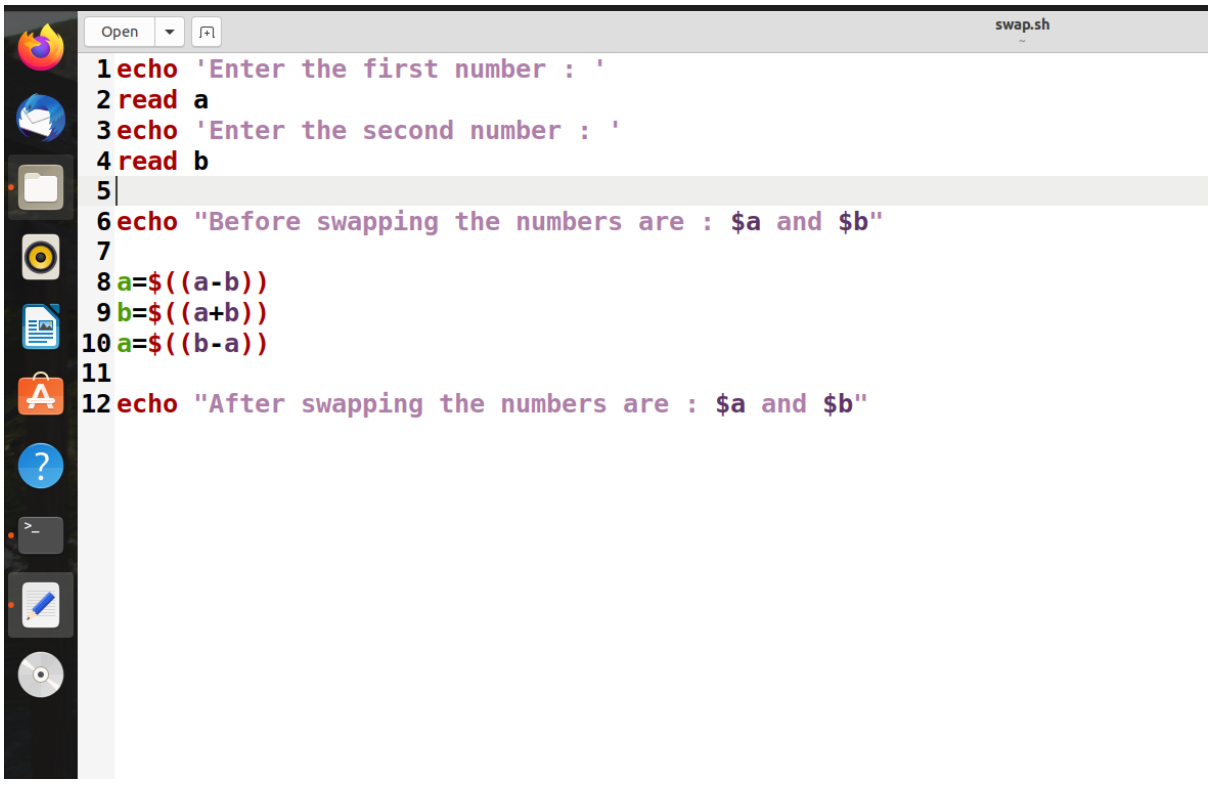
10) who


Activities
Terminal
Aug 22 21:51
prashanth@prashanth-VirtualBox: ~
prashanth@prashanth-VirtualBox:~$ ls
anaconda2 Documents fork Pictures Public sum.sh
compare1.sh Downloads fork.c practice.sh reverse.sh swap.sh
compare.sh folder Music program revsum.sh Templates
Desktop folder1 New program.c src Videos
prashanth@prashanth-VirtualBox:~$ cd Desktop
prashanth@prashanth-VirtualBox:~/Desktop$ pwd
/home/prashanth/Desktop
prashanth@prashanth-VirtualBox:~/Desktop$ cd ..
prashanth@prashanth-VirtualBox:~$ who am i
prashanth@prashanth-VirtualBox:~$ whoami
prashanth
prashanth@prashanth-VirtualBox:~$ uname
Linux
prashanth@prashanth-VirtualBox:~$ ps
PID TTY TIME CMD
2056 pts/0 00:00:00 bash
2169 pts/0 00:00:00 ps
prashanth@prashanth-VirtualBox:~$ tty
/dev/pts/0
prashanth@prashanth-VirtualBox:~$ date
Saturday 22 August 2020 09:49:28 PM IST
prashanth@prashanth-VirtualBox:~$ history
1 2
2 10
3 sudo apt-get install mc
4 mc
5 ls
6 mc --version
7 gedit new.sh
8 gedit fork.c
9 c fork.c
Right Ctrl

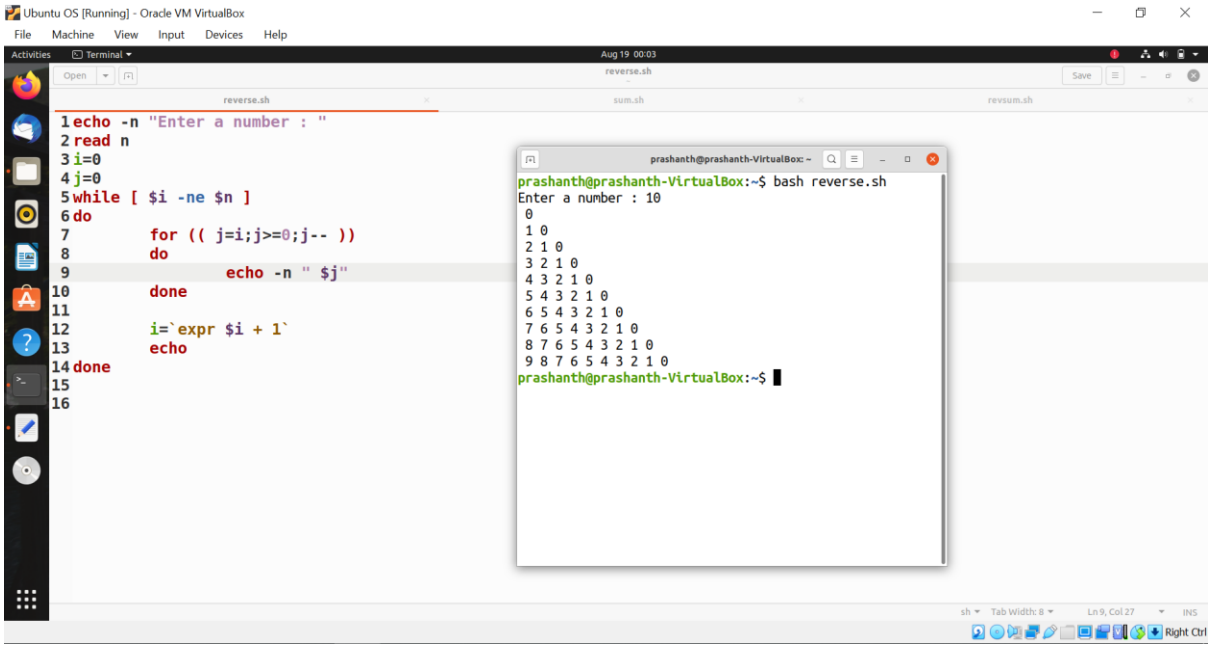

Activities
Terminal
Aug 22 21:51
prashanth@prashanth-VirtualBox: ~
66 var1="Pop"
67 var1
68 echo "$var1"
69 var1= "$var1" | tr '[:upper:]' '[:lower:]'
70 var1= $var1 | tr '[:upper:]' '[:lower:]'
71 var1="$var1" | tr '[:upper:]' '[:lower:]'
72 var1
73 y='This is Best'
74 y
75 y="This is Best"
76 y
77 y="Prashanth"
78 y
79 gedit practice.sh
80 clear
81 bash practice.sh
82 bash compare.sh
83 sh compare.sh
84 ls
85 cd Desktop
86 pwd
87 cd ..
88 who am i
89 whoami
90 uname
91 ps
92 tty
93 date
94 history
prashanth@prashanth-VirtualBox:~$ who
prashanth :0 2020-08-22 21:45 (:0)
prashanth@prashanth-VirtualBox:~$
Right Ctrl

2) Write a shell command two swap two numbers without using the third variable

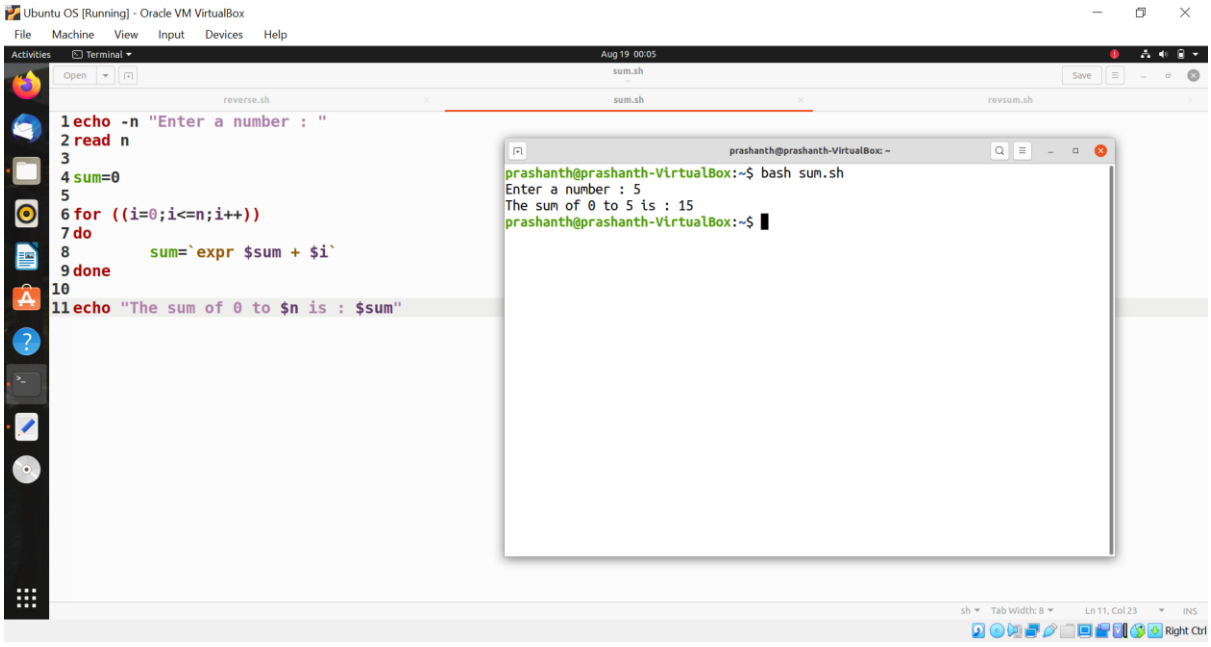
```
prashanth@prashanth-VirtualBox:~$ gedit swap.sh
prashanth@prashanth-VirtualBox:~$ sh swap.sh
Enter the first number :
3
Enter the second number :
4
Before swapping the numbers are : 3 and 4
After swapping the numbers are : 4 and 3
prashanth@prashanth-VirtualBox:~$
```



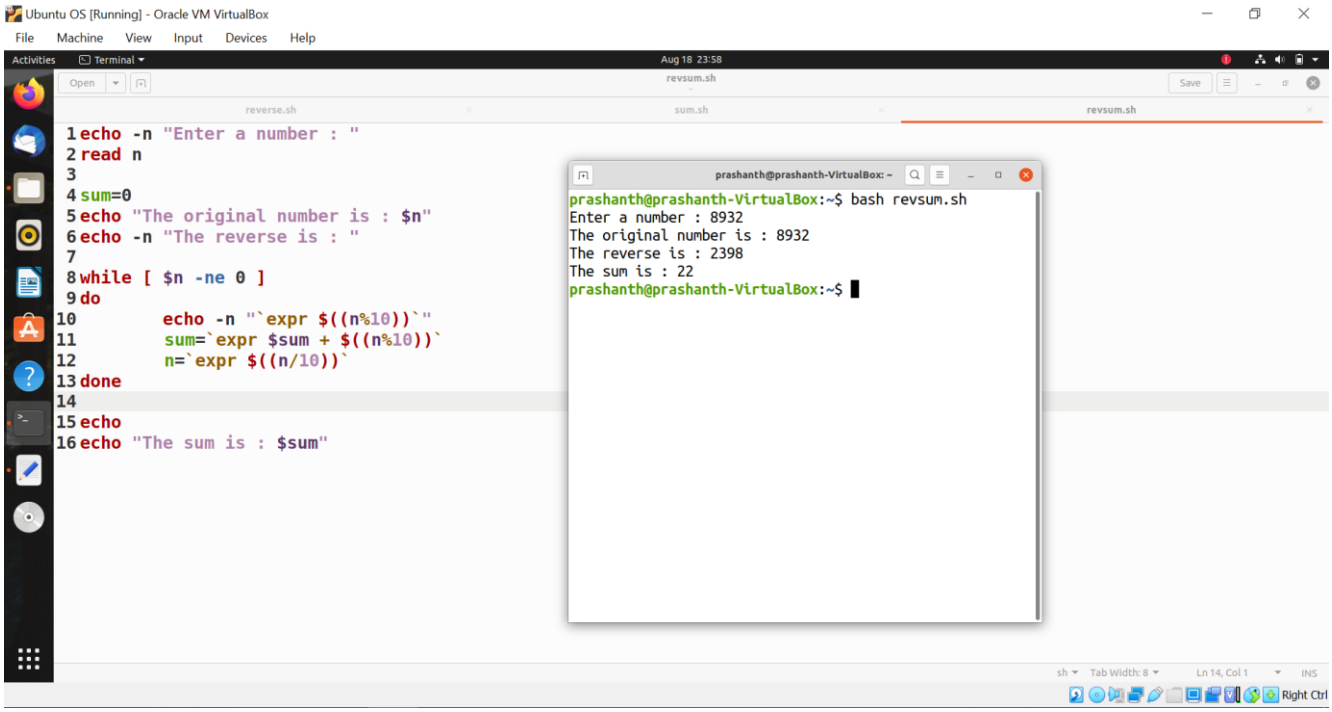
3) Write the shell script using while loop to print the following structure



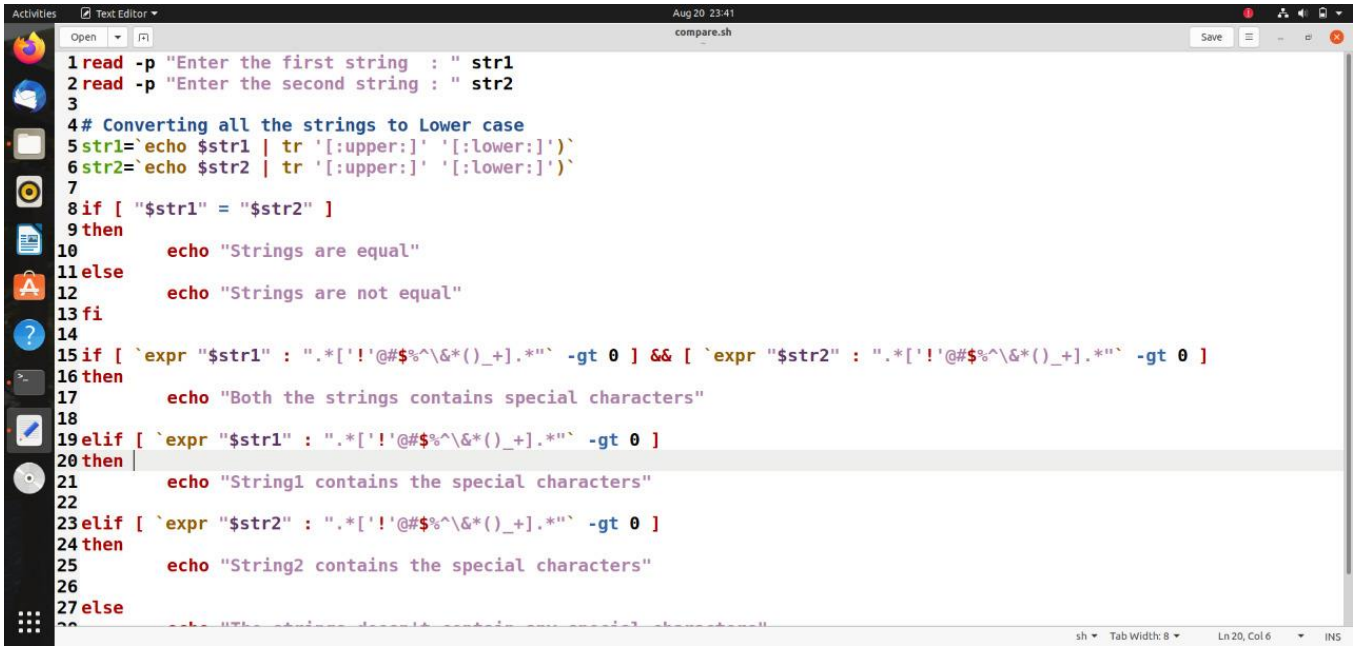
4) Write the shell script to print the sum of first n natural numbers (use for loop)

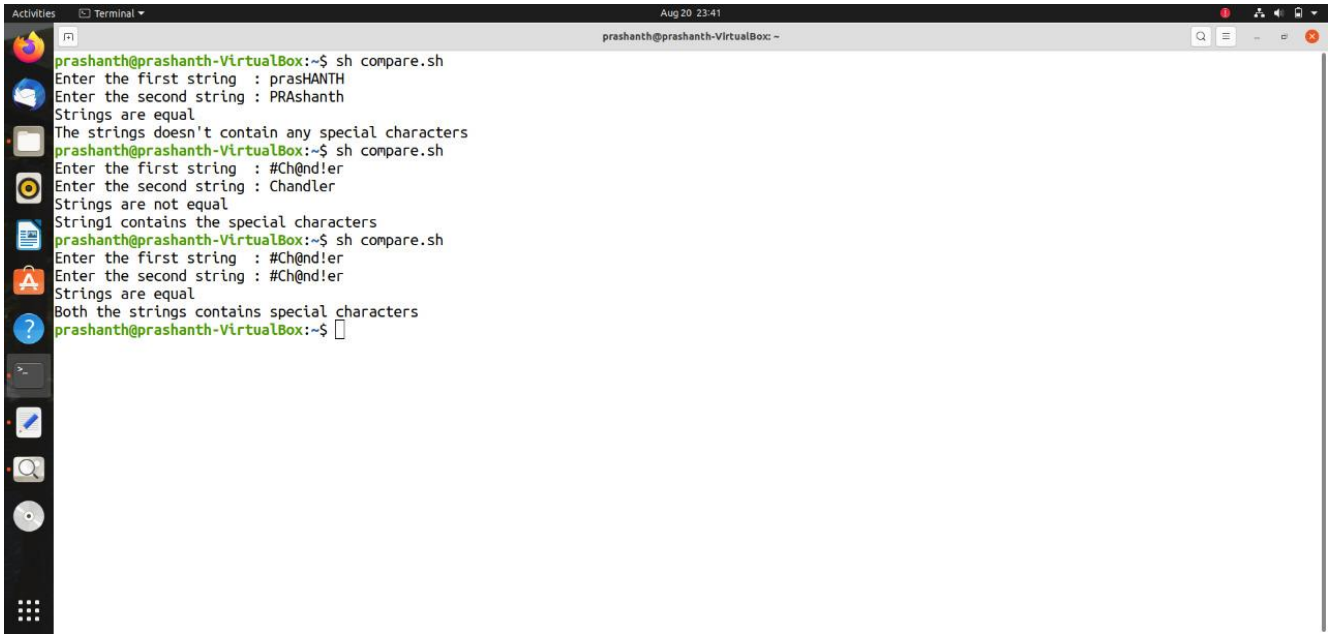


5) Write a shell script to print the given number in reverse order and the sum of individual digits



6) Write a shell script to read two strings and display whether it is equal, not equal , null strings (or) string with special characters




Activities
Terminal
Aug 20 23:41
prashanth@prashanth-VirtualBox: ~
prashanth@prashanth-VirtualBox:~$ sh compare.sh
Enter the first string : prasHANTH
Enter the second string : PRAshanth
Strings are equal
The strings doesn't contain any special characters
prashanth@prashanth-VirtualBox:~$ sh compare.sh
Enter the first string : #Ch@nd!er
Enter the second string : Chandler
Strings are not equal
String1 contains the special characters
prashanth@prashanth-VirtualBox:~$ sh compare.sh
Enter the first string : #Ch@nd!er
Enter the second string : #Ch@nd!er
Strings are equal
Both the strings contains special characters
prashanth@prashanth-VirtualBox:~$