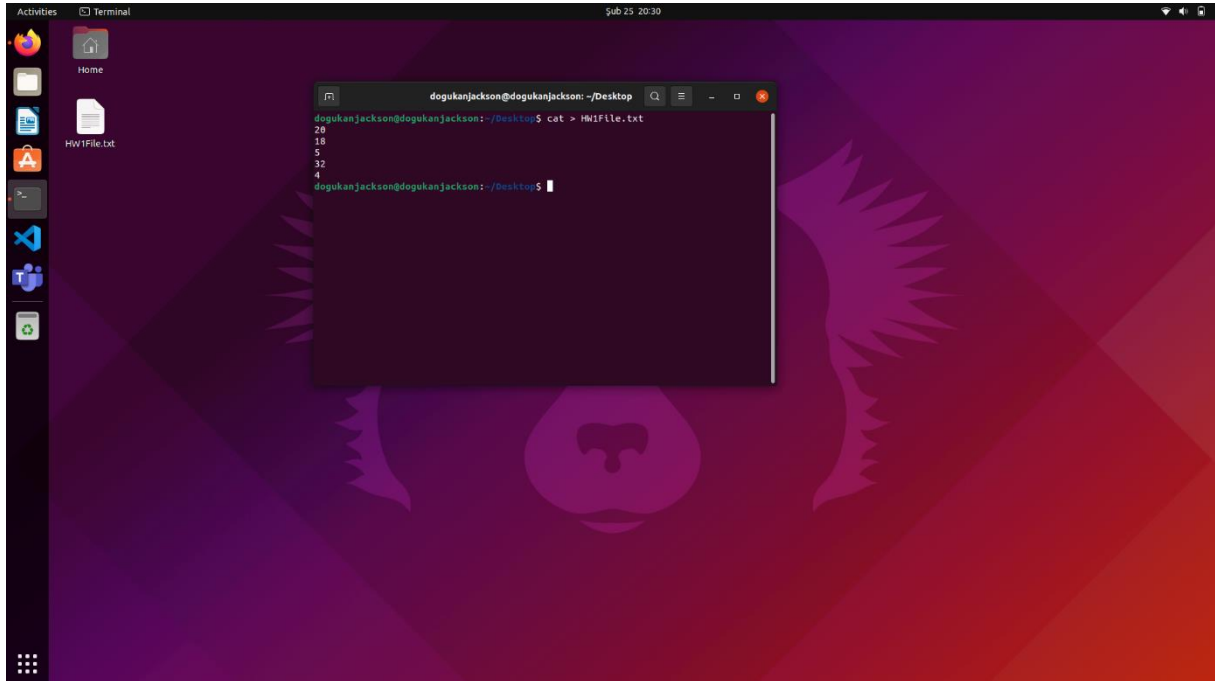


CENG322 Programming Assignment1 Report

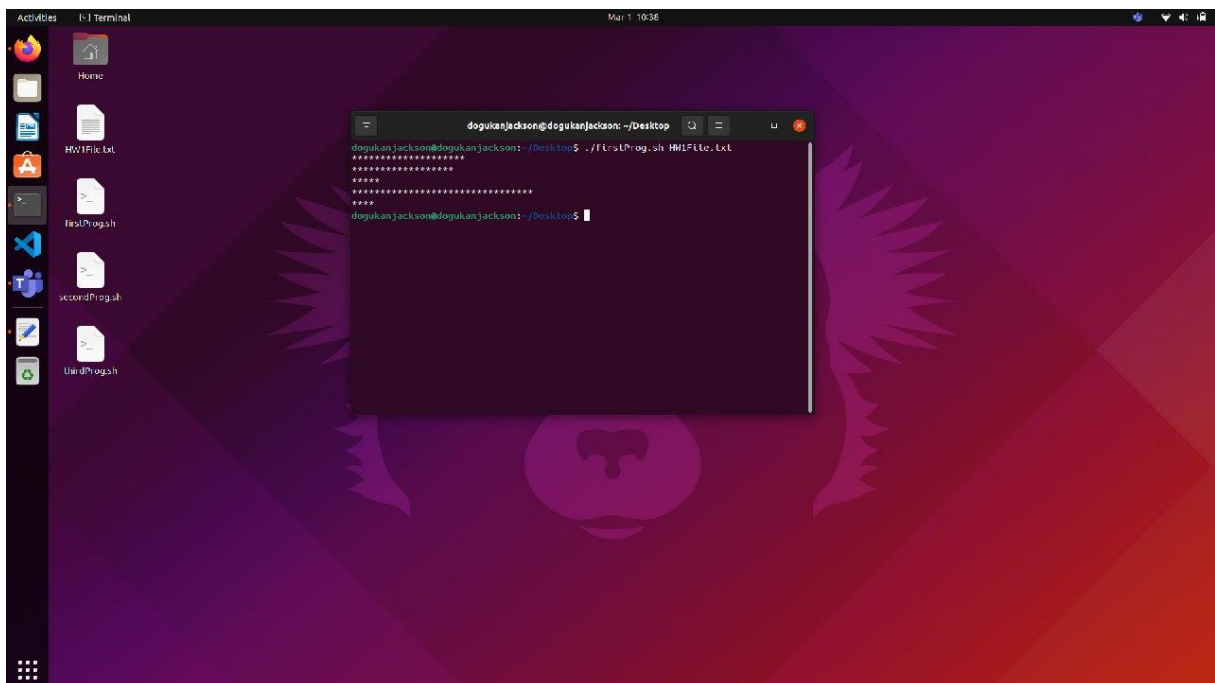
By: Dođukan ÇİFTÇİ-230201071

1-) Firstly, I created a txt file that contains given numbers as shown in the picture below:



```
dogukanjackson@dogukanjackson: ~/Desktop
dogukanjackson@dogukanjackson: ~/Desktop$ cat > HW1File.txt
29
18
5
32
4
dogukanjackson@dogukanjackson: ~/Desktop$
```

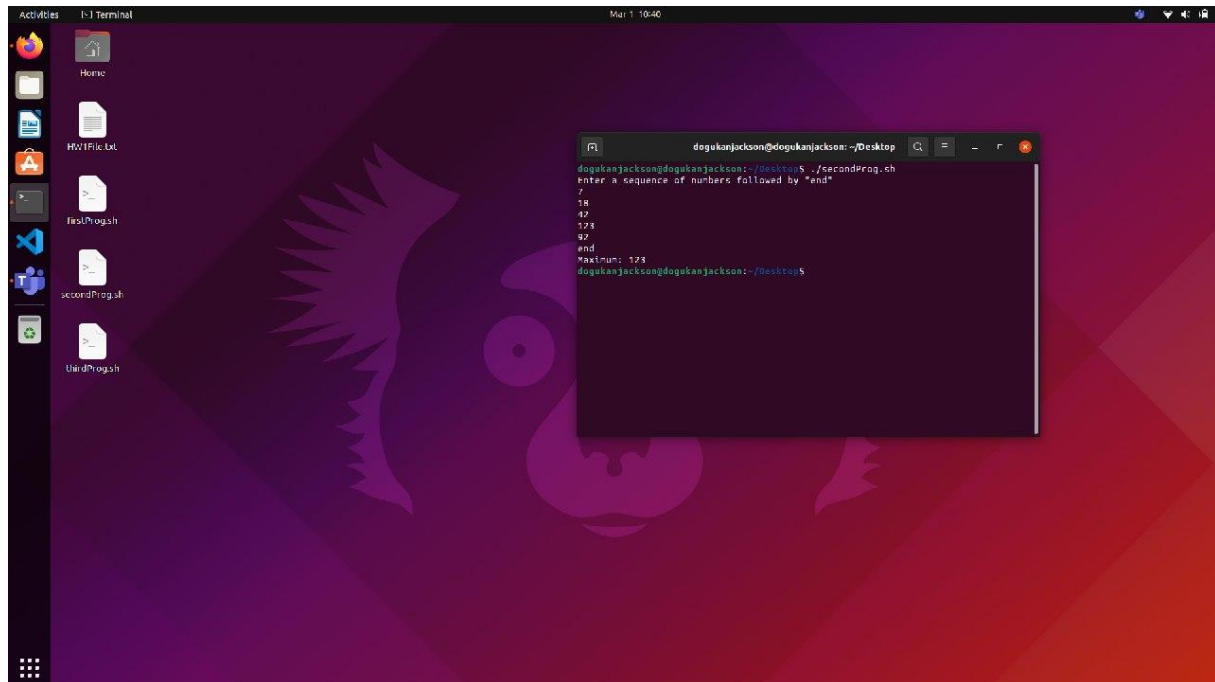
Then I implemented a Shell script named: “firstProg.sh” to complete given task and it gave me following result:



```
dogukanjackson@dogukanjackson: ~/Desktop
dogukanjackson@dogukanjackson: ~/Desktop$ ./firstProg.sh HW1File.txt
*****
*****
*****
*****
*****
dogukanjackson@dogukanjackson: ~/Desktop$
```

In the implementation, I used a while loop to read the given file. First I tried “echo” command to print out stars but I had difficulty about printing them in the same line, so I used “printf” command for printing stars.

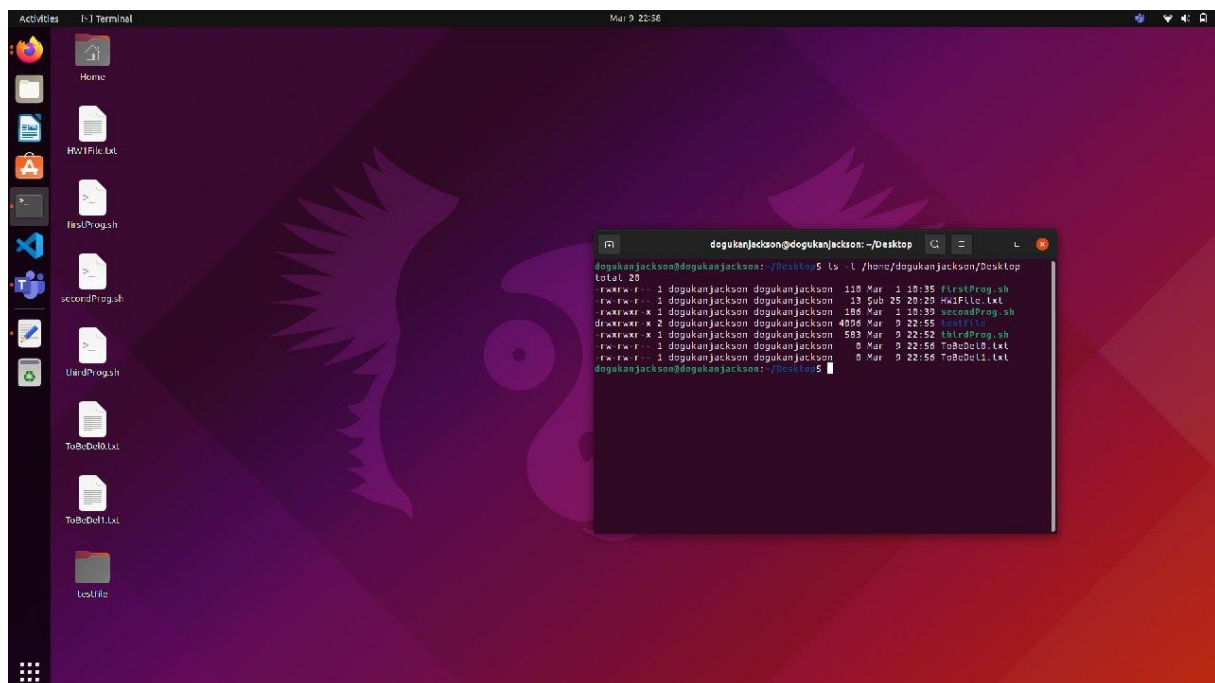
2-) For this question; I implemented a shell script named as: “secondProg.sh”. Again I used a while loop which stops when user enters “end”. I set the maximum number to the first input in a way it updates itself when a larger number is entered. My program worked as the following:



The screenshot shows a Linux desktop environment with a terminal window open. The terminal displays the execution of a shell script named 'secondProg.sh'. The script prompts the user to 'Enter a sequence of numbers followed by "end"'. The user enters the sequence '7 18 42 124 92' followed by 'end'. The script then outputs 'Max num: 124'.

```
dogukanjackson@dogukanjackson: ~/Desktop
dogukanjackson@dogukanjackson: ~/Desktop$ ./secondProg.sh
Enter a sequence of numbers followed by "end"
7
18
42
124
92
end
Max num: 124
dogukanjackson@dogukanjackson: ~/Desktop$
```

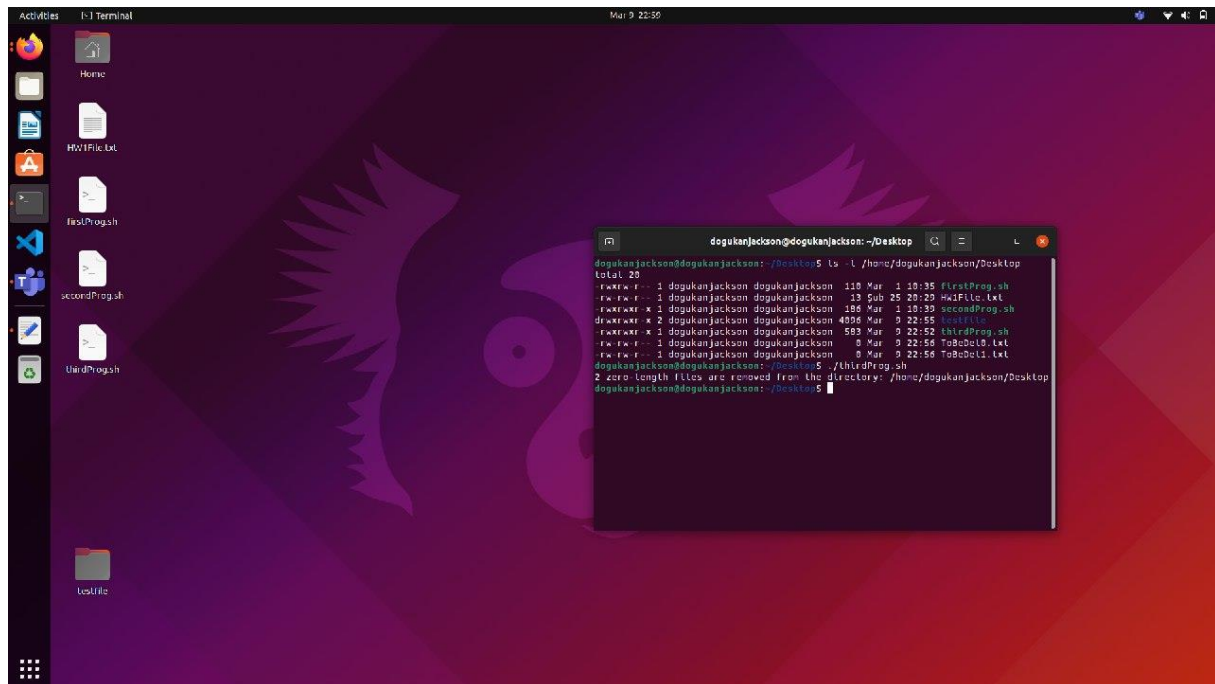
3-) For the last question I implemented a Shell script as “thirdProg.sh”. I implemented it to accept an argument. With an if-elif else structure; If no argument is given, it Works on working directory, if a valid argument given, it Works in there, if an invalid argument is given, program stops with “exit 1” error.; firstly I created a few empty txt files on Desktop, it was like the Picture:



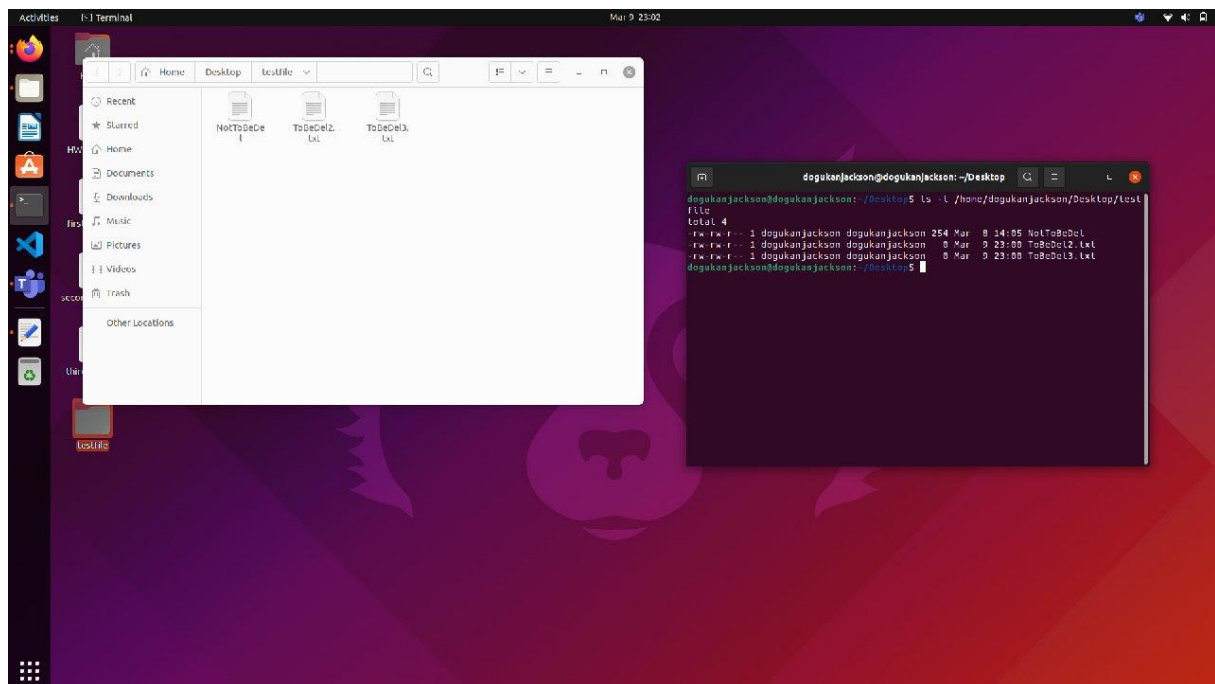
The screenshot shows a Linux desktop environment with a terminal window open. The terminal displays the execution of a shell script named 'thirdProg.sh' with various arguments. The script uses an if-elif else structure to handle different arguments. The output shows the script running successfully for valid arguments and exiting with an error for invalid arguments.

```
dogukanjackson@dogukanjackson: ~/Desktop
dogukanjackson@dogukanjackson: ~/Desktop$ ls -l /home/dogukanjackson/Desktop
total 20
-rwxr-xr-x 1 dogukanjackson dogukanjackson 110 Mar 1 10:35 firstProg.sh
-rw-r--r-- 1 dogukanjackson dogukanjackson 13  Sub 25 20:29 Hw1File.txt
-rwxr-xr-x 1 dogukanjackson dogukanjackson 186 Mar 1 10:39 secondProg.sh
drwxr-xr-x 2 dogukanjackson dogukanjackson 4096 Mar 9 22:55 testDir
-rwxr-xr-x 1 dogukanjackson dogukanjackson 583 Mar 9 22:52 thirdProg.sh
-rw-r--r-- 1 dogukanjackson dogukanjackson 0 Mar 9 22:56 ToBeDel0.txt
-rw-r--r-- 1 dogukanjackson dogukanjackson 0 Mar 9 22:56 ToBeDel1.txt
dogukanjackson@dogukanjackson: ~/Desktop$
```

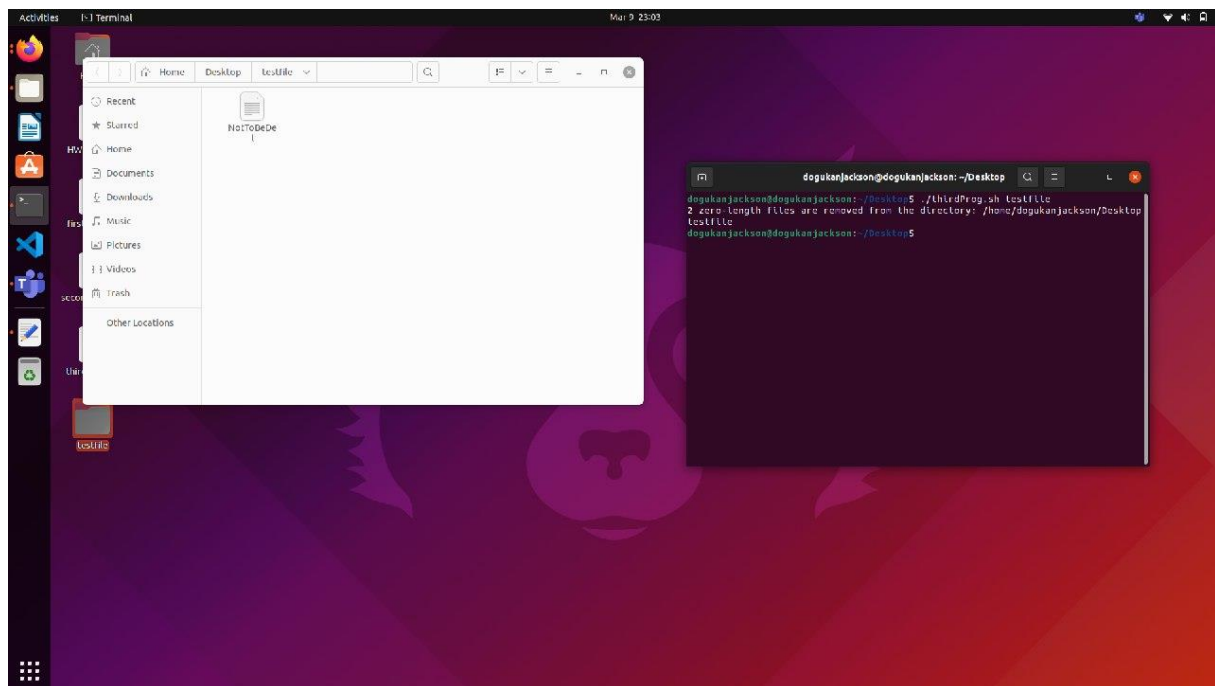
Then when I run my script without any argument, empty files on the Desktop were deleted:



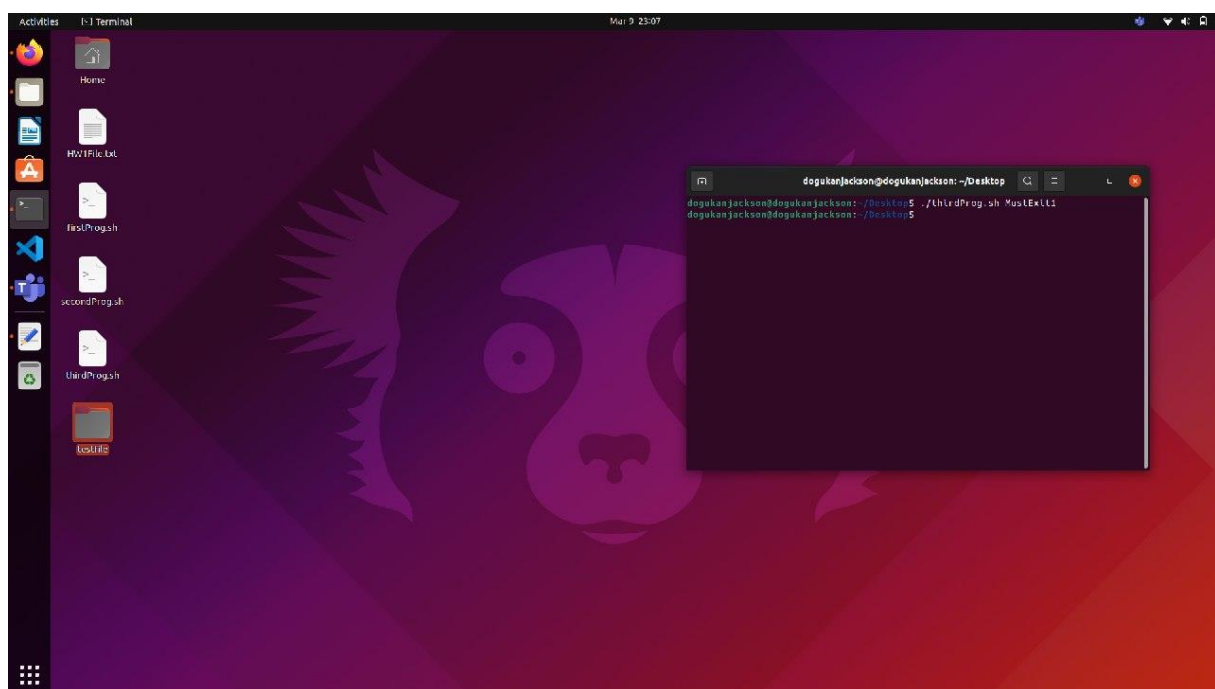
I created a directory named “testfile” which contains 2 empty and 1 non-empty txt files to try my script with an argument:



After that when I ran my script with “testfile” argument, result was:



Finally I tried entering an invalid argument to test “exit 1”:



My shell script worked correctly.