Assignment 3: Create a function that takes a filename as an argument and prints the number of lines in the file. Call this function from your script with different filenames.

Ans: Step1:

```
 nano count_line.sh
```

this command is use for the creating script file

after writing the script

use CTRL+O to save the file

press ENTER

For exit from the file PRESS

CTRL+X

The Script is:

```
#!/bin/bash
count_lines() {
    local filename=$1
 if [ -f "$filename" ]; then
        local line_count=$(wc -l < "$filename")
        echo "The file '$filename' has $line_count lines."
    else
        echo "Error: The file '$filename' does not exist."
    fi
}

count_lines "file1.txt"
```

count_lines "file2.txt"

count_lines "file3.txt"

Step3 :

Use command

chmod +x count_line.sh

This command is essential because it sets the necessary permissions on the file to allow it to be run as a program in your Linux environment

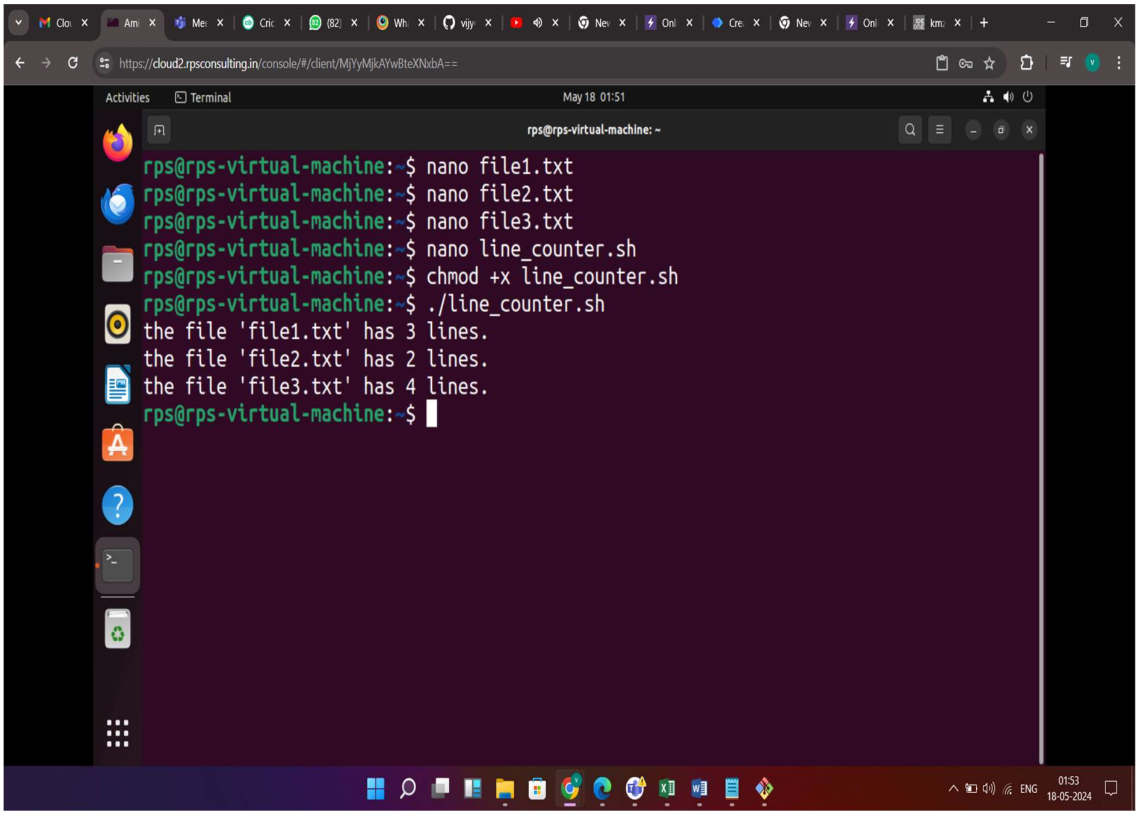
Step4:

Use ./count_line.sh

To excute the script

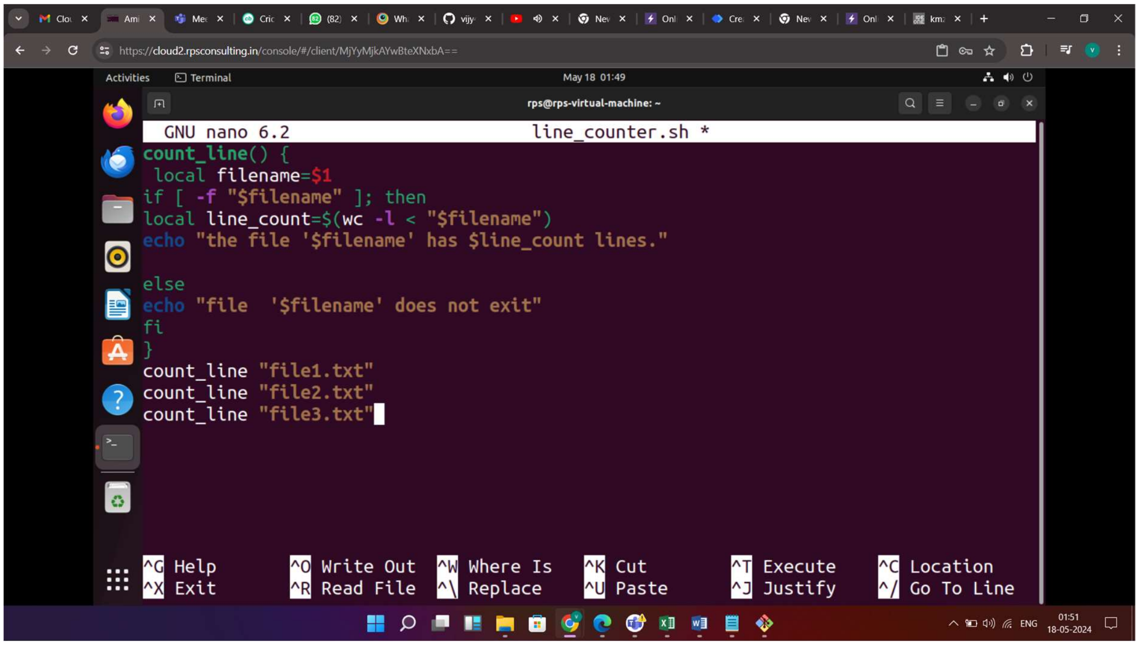
Following is output snapshots:

output:


https://cloud2.rpsconsulting.in/console/#/client/MjYyMjkAYwBteXNxbA==
Activities
Terminal
May 18 01:51
rps@rps-virtual-machine: ~
ENG
01:53
18-05-2024

```
rps@rps-virtual-machine:~$ nano file1.txt
rps@rps-virtual-machine:~$ nano file2.txt
rps@rps-virtual-machine:~$ nano file3.txt
rps@rps-virtual-machine:~$ nano line_counter.sh
rps@rps-virtual-machine:~$ chmod +x line_counter.sh
rps@rps-virtual-machine:~$ ./line_counter.sh
the file 'file1.txt' has 3 lines.
the file 'file2.txt' has 2 lines.
the file 'file3.txt' has 4 lines.
rps@rps-virtual-machine:~$ 
```

Script:



https://cloud2.rpsconsulting.in/console/#/client/MjYyMjkAYwBteXNxbA==
Activities
Terminal
May 18 01:49
rps@rps-virtual-machine: ~

```
  GNU nano 6.2                     line_counter.sh *
count_line() {
 local filename=$1
if [ -f "$filename" ]; then
local line_count=$(wc -l < "$filename")
echo "the file '$filename' has $line_count lines."

else
echo "file  '$filename' does not exit"
fi
}
count_line "file1.txt"
count_line "file2.txt"
count_line "file3.txt"
```