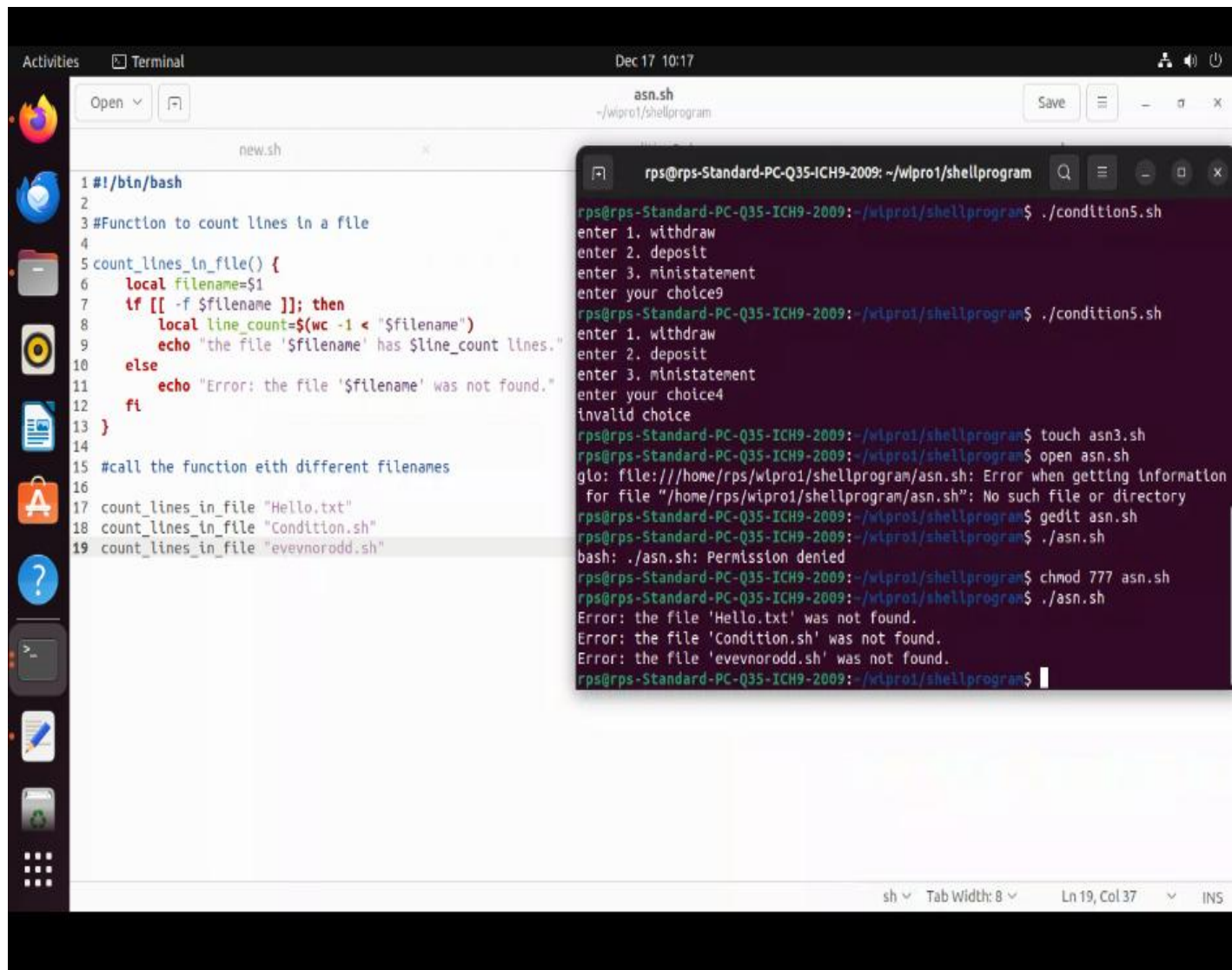


Assignment 3: Create a function that takes a filename as an argument and prints the number of lines in the file. Call this function from your script with different filenames.



The screenshot shows a Linux desktop environment with a terminal window and a code editor. The code editor displays a shell script named `asn.sh` located at `~/wipro1/shellprogram`. The script defines a function `count_lines_in_file()` that takes a filename as an argument and prints the number of lines in the file. The function uses `local filename=$1` to store the argument, checks if the file exists with `if [[-f $filename]]; then`, and uses `local line_count=$(wc -l < "$filename")` to count the lines. It then prints the result with `echo 'the file '$filename' has $line_count lines.'`. If the file does not exist, it prints an error message: `echo "Error: the file '$filename' was not found."`. The script also includes a comment `#call the function eith different filenames` and three calls to the function: `count_lines_in_file "Hello.txt"`, `count_lines_in_file "Condition.sh"`, and `count_lines_in_file "eveynorodd.sh"`.

```
1 #!/bin/bash
2
3 #Function to count lines in a file
4
5 count_lines_in_file() {
6     local filename=$1
7     if [[ -f $filename ]]; then
8         local line_count=$(wc -l < "$filename")
9         echo 'the file '$filename' has $line_count lines.'
10    else
11        echo "Error: the file '$filename' was not found."
12    fi
13 }
14
15 #call the function eith different filenames
16
17 count_lines_in_file "Hello.txt"
18 count_lines_in_file "Condition.sh"
19 count_lines_in_file "eveynorodd.sh"
```

The terminal window shows the execution of the script. The user runs `./asn.sh` and the output is:

```
rps@rps-Standard-PC-Q35-ICH9-2009: ~/wipro1/shellprogram
rps@rps-Standard-PC-Q35-ICH9-2009: ~/wipro1/shellprogram$ ./asn.sh
Error: the file 'Hello.txt' was not found.
Error: the file 'Condition.sh' was not found.
Error: the file 'eveynorodd.sh' was not found.
rps@rps-Standard-PC-Q35-ICH9-2009: ~/wipro1/shellprogram$
```