

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 a different filename.

```
#!/bin/bash

# Function to count the number of lines in a file
count_lines() {
    local filename="$1"
    if [ ! -f "$filename" ]; then
        echo "File '$filename' not found!"
        return 1
    fi

    local line_count
    line_count=$(wc -l < "$filename")
    echo "The file '$filename' has $line_count lines."
}

# Main script logic
while true; do
    read -p "Enter a filename (or 'exit' to quit): " filename

    if [ "$filename" == "exit" ]; then
        echo "Exiting..."
        break
    fi

    count_lines "$filename"
done
```

#### OUTPUT:

```
rps@rps-virtual-machine:~/Desktop/8. SHELL SCRIPTING WITH BASH$ chmod 777
numberoflines.sh
rps@rps-virtual-machine:~/Desktop/8. SHELL SCRIPTING WITH BASH$ ./numberoflines.sh
Enter a filename (or 'exit' to quit): file1.txt
The file 'file1.txt' has 2 lines.
Enter a filename (or 'exit' to quit): file2.txt
The file 'file2.txt' has 2 lines.
Enter a filename (or 'exit' to quit): file3.txt
File 'file3.txt' not found!
Enter a filename (or 'exit' to quit): exit
```

Exiting...