RPS DAY 5 Assignment

Assignment 3

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Batch - CPPE

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.

#Step1: Create 3 files

```
touch file1.txt
touch file2.txt
touch file3.txt
```

#Step2: Create a Function to count the number of lines in a file

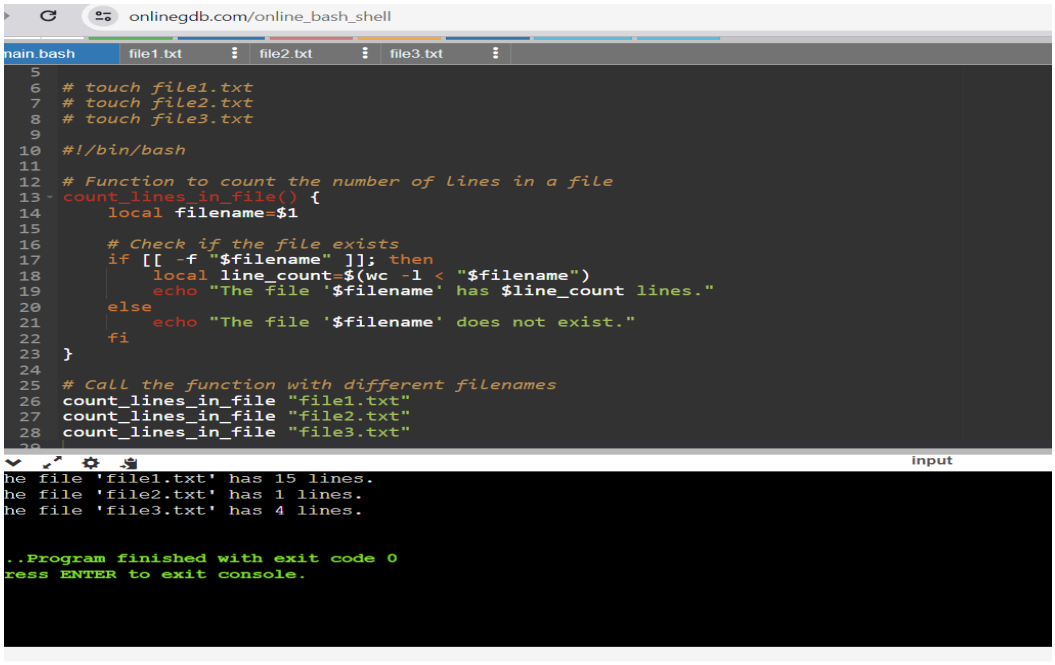
```
#!/bin/bash

count_lines_in_file() {
    local filename=$1

  #Step3:  Check if the file exists
    if [[ -f "$filename" ]]; then
        local line_count=$(wc -l < "$filename")
        echo "The file '$filename' has $line_count lines."
    else
        echo "The file '$filename' does not exist."
    fi
}
```

#Step4: Call the function with different filenames

```
count_lines_in_file "file1.txt"
count_lines_in_file "file2.txt"
count_lines_in_file "file3.txt"
```


onlinegdb.com/online_bash_shell
main.bash
file1.txt
file2.txt
file3.txt
touch file1.txt
touch file2.txt
touch file3.txt
#!/bin/bash
# Function to count the number of lines in a file
count_lines_in_file() {
local filename=$1
# Check if the file exists
if [[-f "$filename"]]; then
local line_count=$(wc -l < "$filename")
echo "The file '$filename' has $line_count lines."
else
echo "The file '$filename' does not exist."
fi
}
# Call the function with different filenames
count_lines_in_file "file1.txt"
count_lines_in_file "file2.txt"
count_lines_in_file "file3.txt"
input
he file 'file1.txt' has 15 lines.
he file 'file2.txt' has 1 lines.
he file 'file3.txt' has 4 lines.
..Program finished with exit code 0
ress ENTER to exit console.

Assignment 4

4: Write a script that creates a directory named TestDir and inside it, creates ten files named File1.txt, File2.txt, ... File10.txt. Each file should contain its filename as its content (e.g., File1.txt contains "File1.txt").

 # Step 1: Create 10 files with the same file name as the content in it.

```
touch file1.txt
touch file2.txt
touch file3.txt
touch file4.txt
touch file5.txt
touch file6.txt
touch file7.txt
touch file8.txt
touch file9.txt
touch file10.txt
```

```
#!/bin/bash
```

#Step 2: Create a variable and store the Directory name

```
dir_name="TestDir"
```

#Step 3: Create the directory

```
mkdir -p "$dir_name"
```

#Step 4: Change to the directory

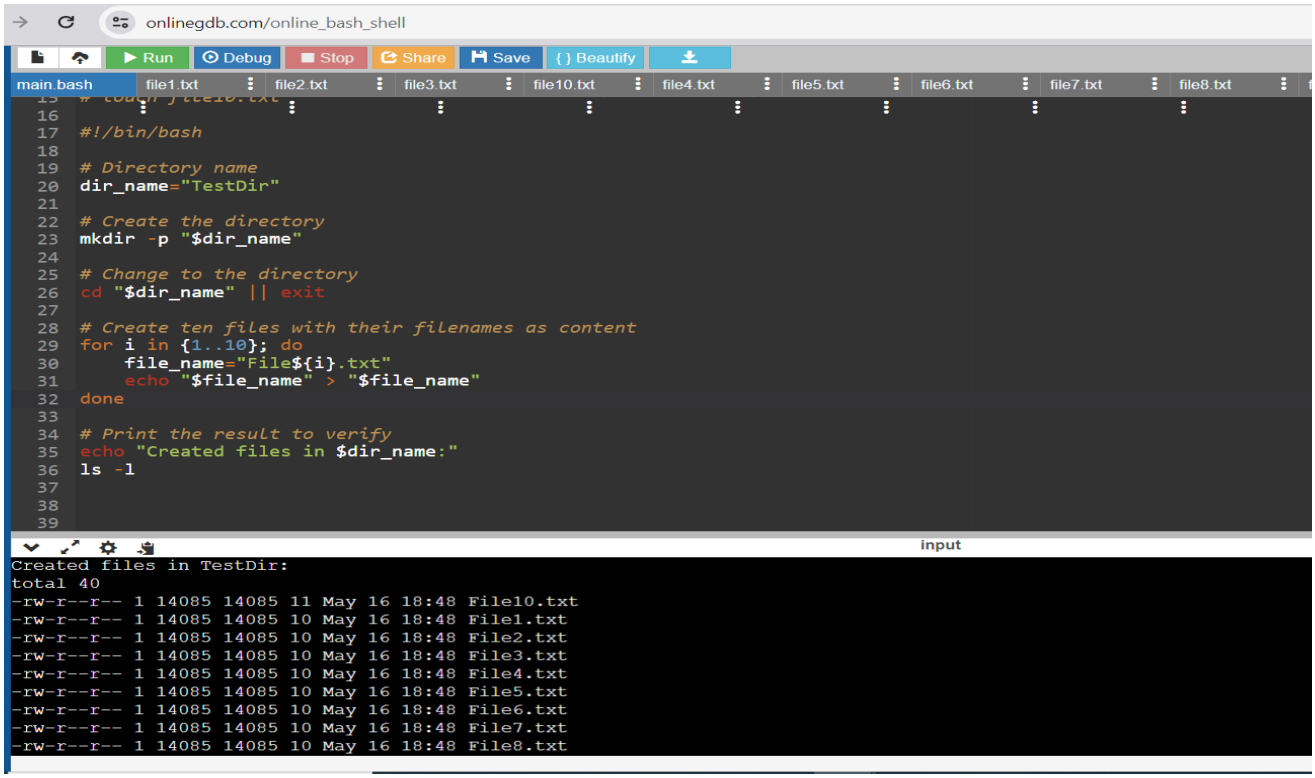
```
cd "$dir_name" || exit
```

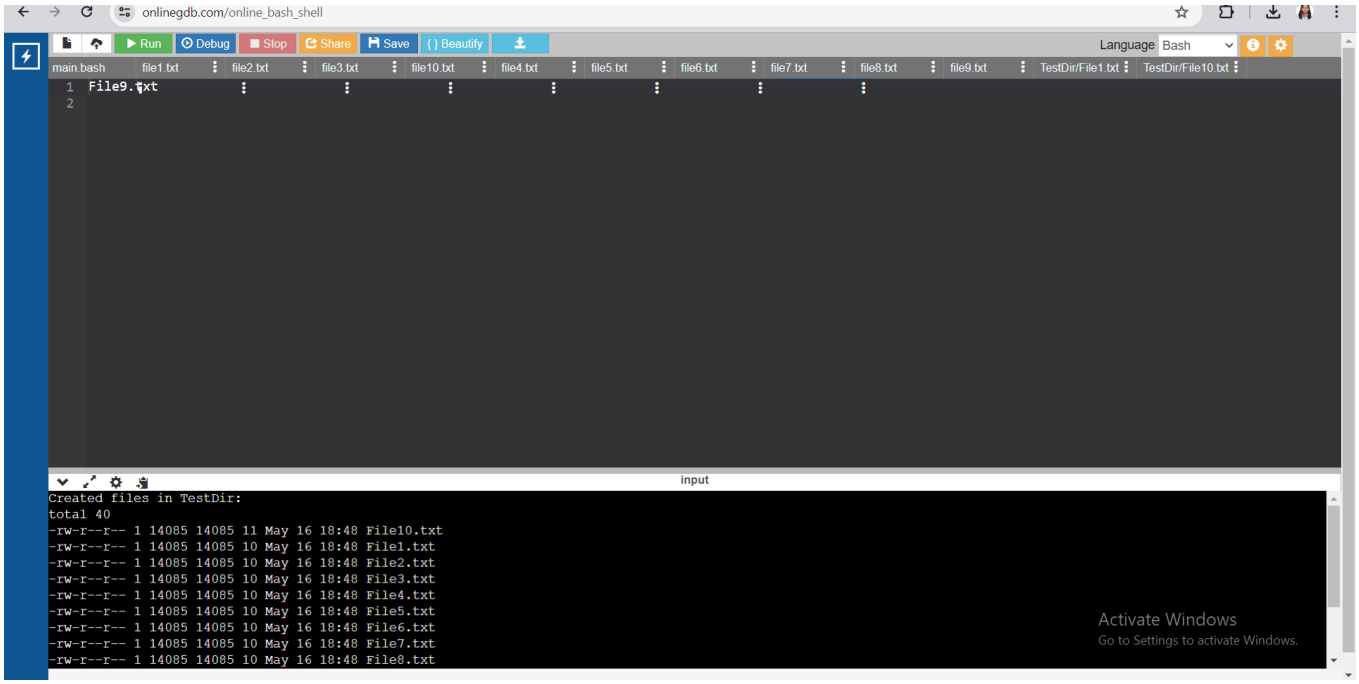
#Step 5: Create ten files with their filenames as content

```
for i in {1..10}; do
    file_name="File${i}.txt"
    echo "$file_name" > "$file_name"
done
```

#Step6: Print the result to verify

```
echo "Created files in $dir_name:"
ls -l
```


onlinegdb.com/online_bash_shell
Run
Debug
Stop
Share
Save
{ } Beautify
main.bash
file1.txt
file2.txt
file3.txt
file10.txt
file4.txt
file5.txt
file6.txt
file7.txt
file8.txt
#!/bin/bash
# Directory name
dir_name="TestDir"
# Create the directory
mkdir -p "$dir_name"
Change to the directory
cd "$dir_name" || exit
# Create ten files with their filenames as content
for i in {1..10}; do
file_name="File${i}.txt"
echo "$file_name" > "$file_name"
done
Print the result to verify
echo "Created files in $dir_name:"
ls -l
input
Created files in TestDir:
total 40
-rw-r--r-- 1 14085 14085 11 May 16 18:48 File10.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File1.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File2.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File3.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File4.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File5.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File6.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File7.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File8.txt


onlinegdb.com/online_bash_shell
Run
Debug
Stop
Share
Save
{ } Beautify
Language
Bash
main.bash
file1.txt
file2.txt
file3.txt
file10.txt
file4.txt
file5.txt
file6.txt
file7.txt
file8.txt
file9.txt
TestDir/File1.txt
TestDir/File10.txt
File9.txt
input
Created files in TestDir:
total 40
-rw-r--r-- 1 14085 14085 11 May 16 18:48 File10.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File1.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File2.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File3.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File4.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File5.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File6.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File7.txt
-rw-r--r-- 1 14085 14085 10 May 16 18:48 File8.txt
Activate Windows
Go to Settings to activate Windows.

Assignment 5

5: Modify the script to handle errors, such as the directory already existing or lacking permissions to create files.
Add a debugging mode that prints additional information when enabled.