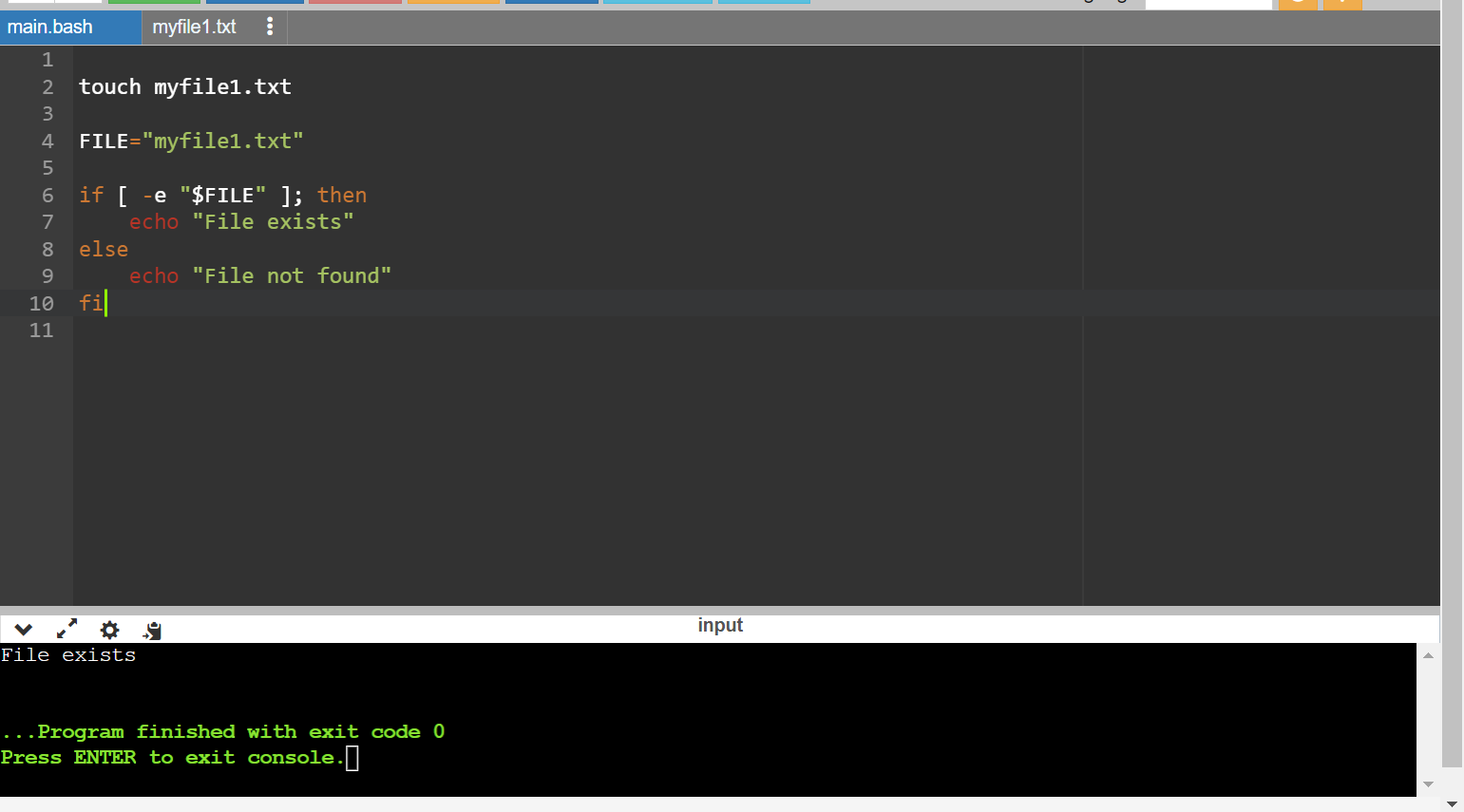
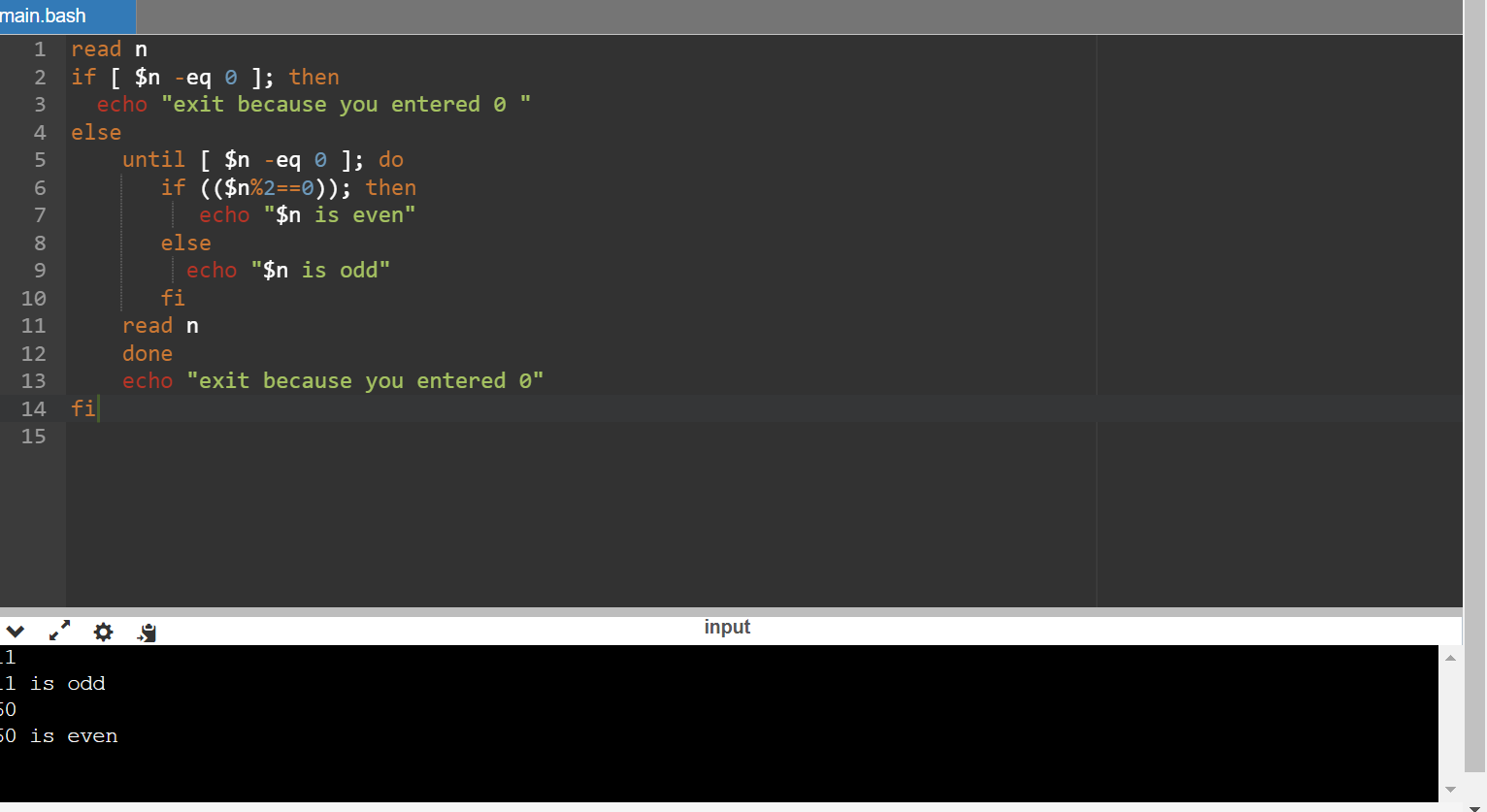
**Shell Scripting with Bash**

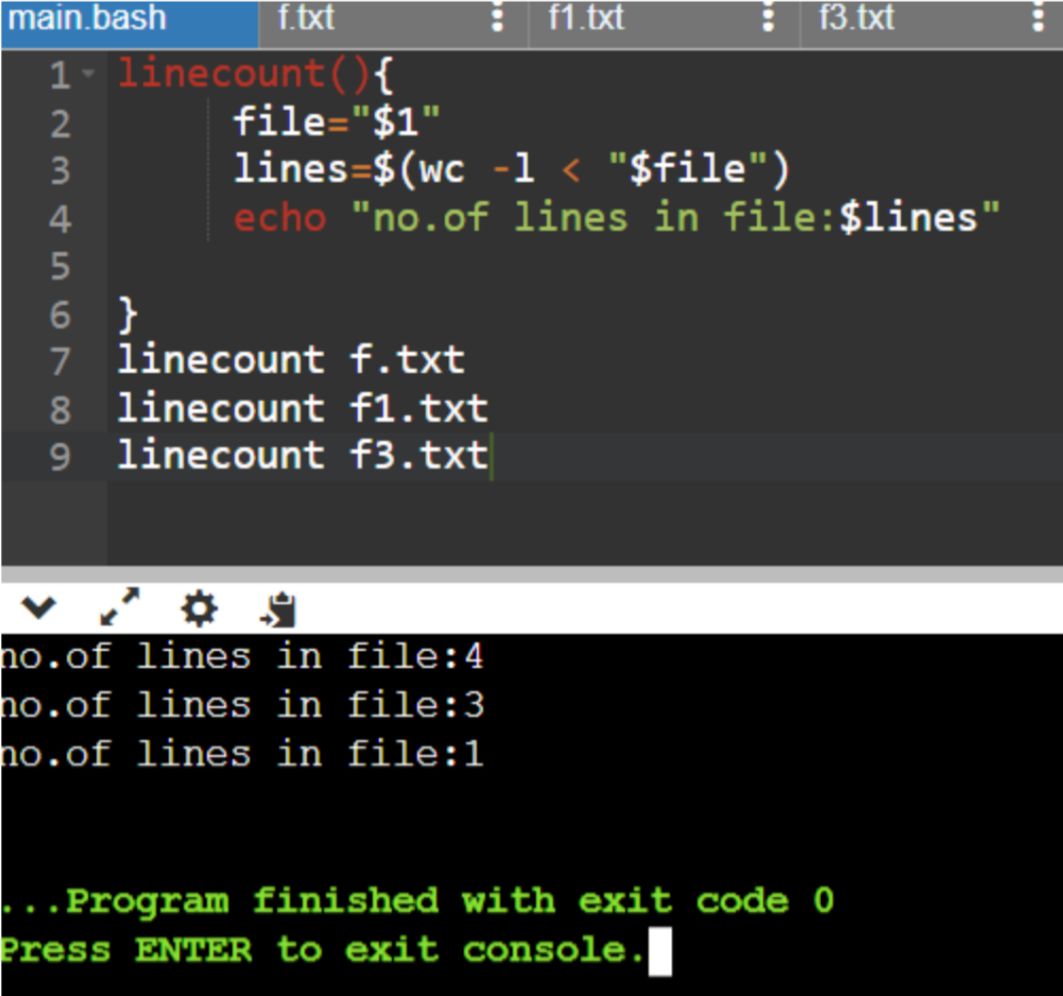
**Assignment 1: Ensure the script checks if a specific file (e.g., myfile.txt) exists in the current directory. If it exists, print "File exists", otherwise print "File not found"**



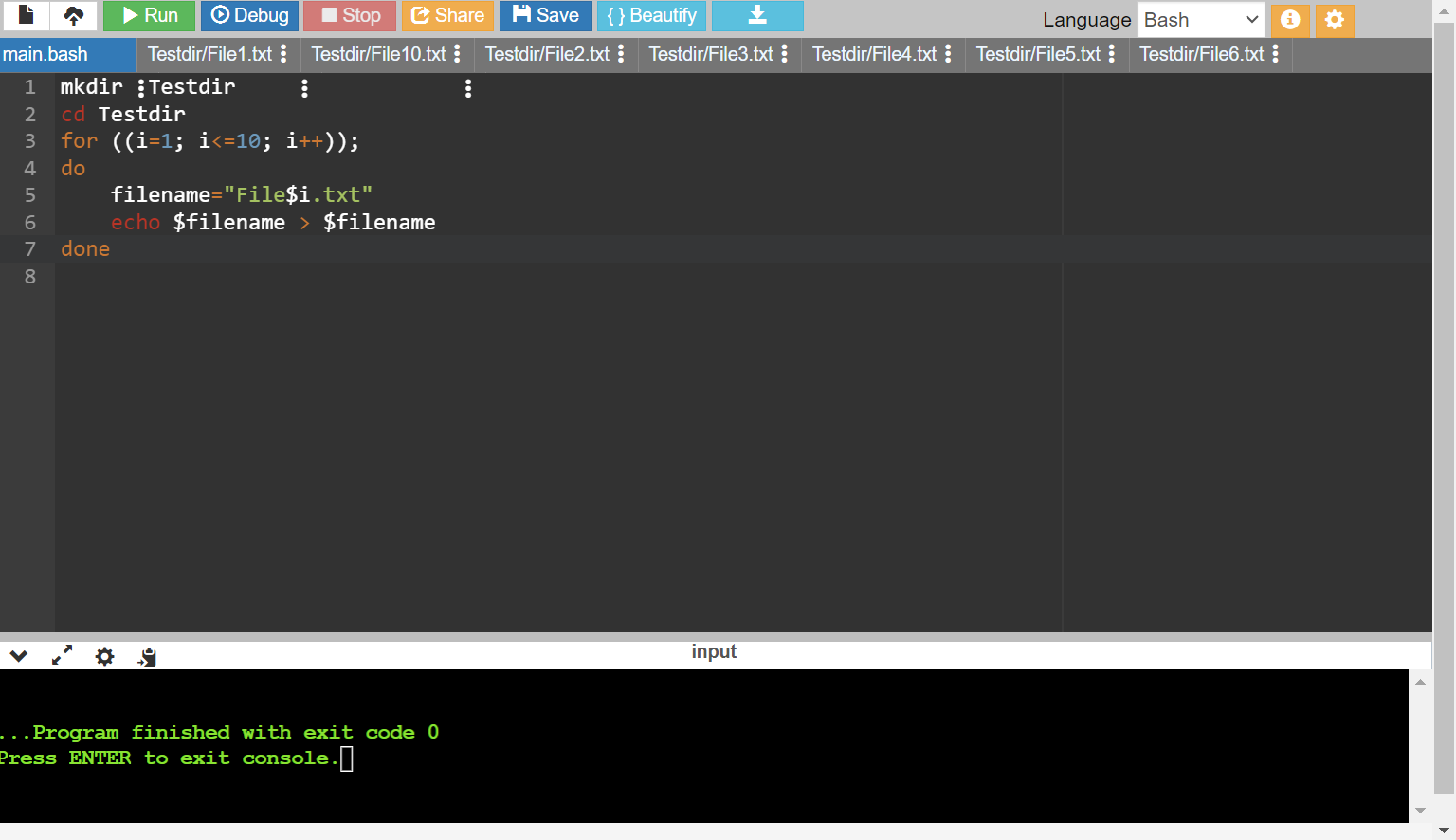
**Assignment 2: Write a script that reads numbers from the user until they enter '0'. The script should also print whether each number is odd or even**

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**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.**

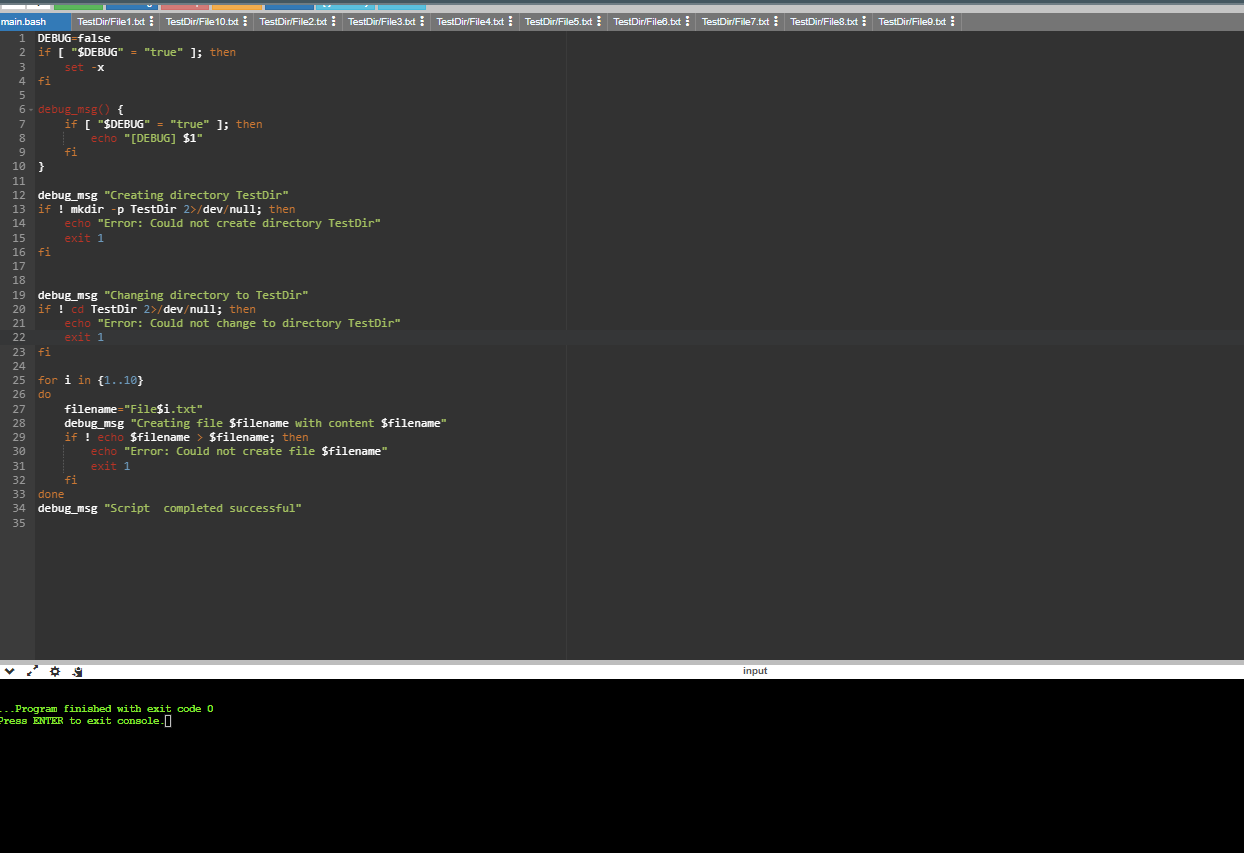
****

**Assignment 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")**

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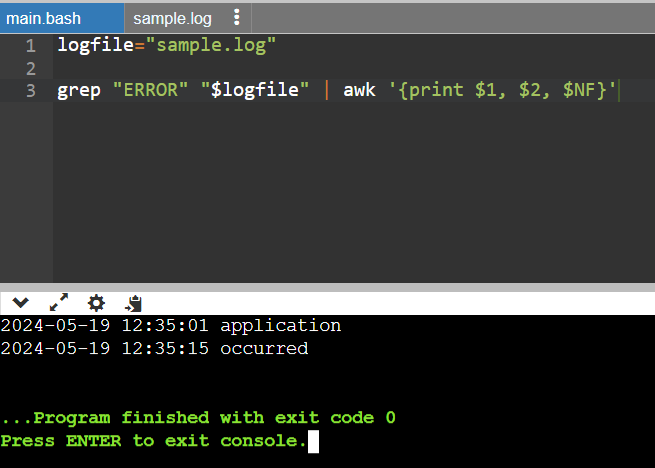
**Assignment 5: Modify the script to handle errors, such as the directory already existing or lacking permissions to create files.**

**Add a debugging mode that prints additional information when enabled.**

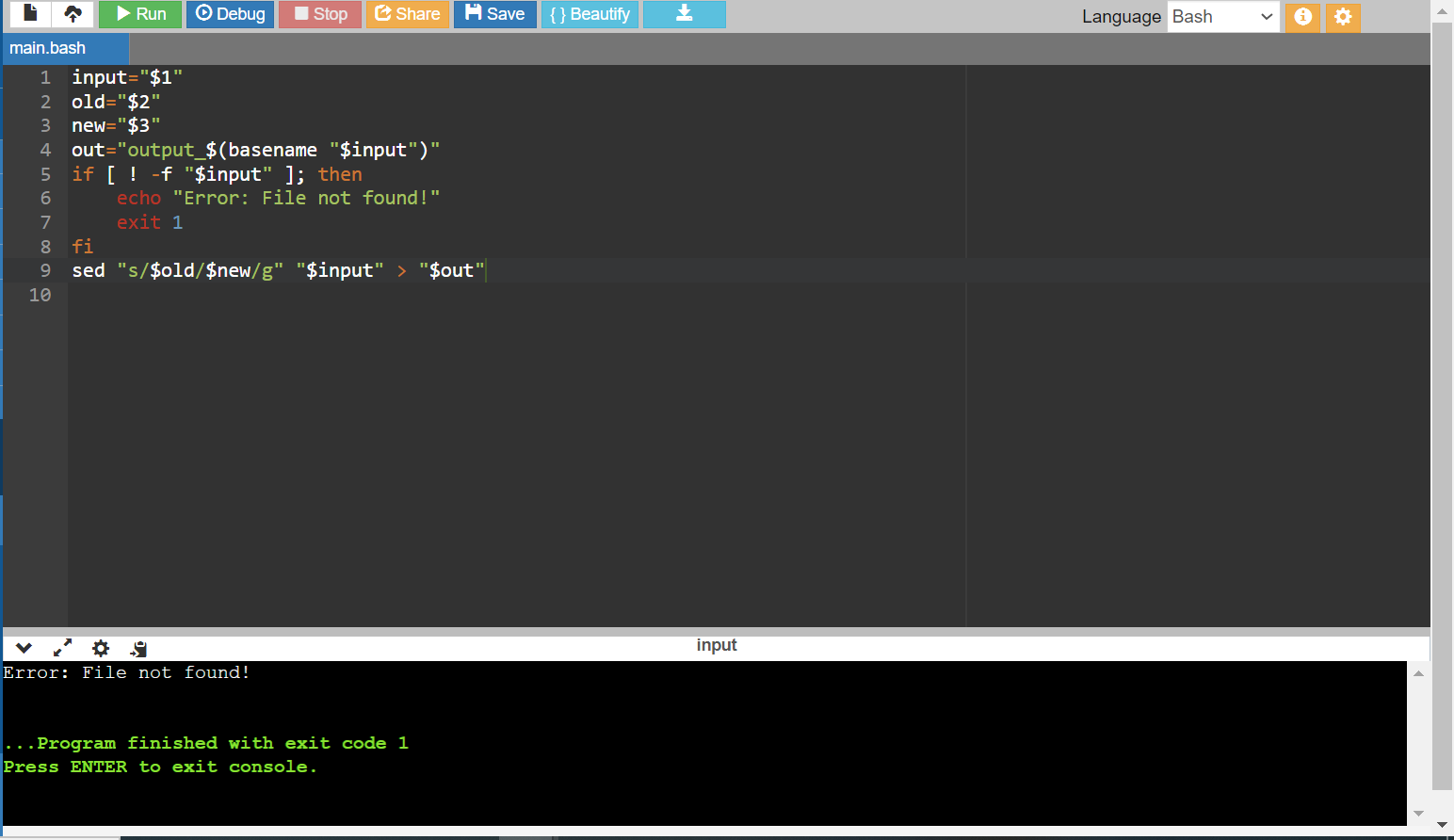
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**Assignment 6: Given a sample log file, write a script using grep to extract all lines containing "ERROR". Use awk to print the date, time, and error message of each extracted line.**

**Data Processing with sed**

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**Assignment 7: Create a script that takes a text file and replaces all occurrences of "old\_text" with "new\_text". Use sed to perform this operation and output the result to a new file**

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