

Assignment 07:

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.

Shebang Line (Optional): The first line `#!/bin/bash` specifies the interpreter to use (bash) when running the script.

Error Handling:

The script checks if three arguments are provided using `if [$# -lt 3]`.

`$#` represents the number of arguments passed to the script.

If less than three arguments are provided, an error message with usage instructions is printed, and the script exits with an error code (exit 1).

Variable Assignment:

The script retrieves the arguments and assigns them to variables:

\$1: Input file name

\$2: Text to be replaced (old text)

\$3: Replacement text (new text)

Input File Check:

The script checks if the input file exists using [! -f "\$input_file"].

If the file doesn't exist, an error message is printed, and the script exits.

Output File Name:

The script constructs the output file name:

It removes the .txt extension (if present) using parameter expansion ("\${input_file%.txt}").

It appends ".replaced.txt" to create a new filename with a clear indication of the modification.

Replacement with sed:

The core functionality relies on sed:

```
sed "s/$old_text/$new_text/g" "$input_file" >  
"$output_file"
```

s/: search and replace command in sed.

\$old_text: pattern to be replaced.

\$new_text: replacement text.

/g: global flag to replace all occurrences (not just the first).

"\$input_file": specifies the input file.

> "\$output_file": redirects the output of sed (modified content) to the new file.