***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.*

***Script that uses sed to replace "old\_text" with "new\_text" in a file:***

***Bash***

*#!/bin/bash*

*# Input file name*

*INPUT\_FILE="input.txt"*

*# Output file name*

*OUTPUT\_FILE="output.txt"*

*# Old text to replace*

*OLD\_TEXT="old\_text"*

*# New text to replace with*

*NEW\_TEXT="new\_text"*

*# Use sed to replace old\_text with new\_text*

*sed "s/$OLD\_TEXT/$NEW\_TEXT/g" "$INPUT\_FILE" > "$OUTPUT\_FILE"*

*echo "Replacement completed. Output written to $OUTPUT\_FILE."*

***How to Run***

1. *Open a text editor (e.g., Nano, Gedit).*
2. *Copy and paste the script.*
3. *Save the file (e.g., replace\_text.sh).*
4. *Replace "input.txt" with your actual input file name.*
5. *Replace "old\_text" and "new\_text" with your desired texts.*
6. *Open the terminal.*
7. *Navigate to the directory where you saved the file.*
8. *Make the script executable: chmod +x replace\_text.sh*
9. *Run the script: ./replace\_text.sh*

***Explanation***

1. *sed is used for stream editing.*
2. *s/old\_text/new\_text/g replaces all occurrences of "old\_text" with "new\_text".*
3. *s denotes substitute.*
4. *g denotes global replacement (all occurrences).*
5. *> output.txt redirects output to a new file.*