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.

```
#!/bin/bash

# Check if correct number of arguments is provided
if [ "$#" -ne 3 ]; then
  echo "Usage: $0 input_file old_text new_text"
  exit 1
fi

# Assign arguments to variables
input_file=$1
old_text=$2
new_text=$3
output_file="output_$(basename "$input_file")"

# Check if the input file exists
if [ ! -f "$input_file" ]; then
  echo "Input file $input_file not found!"
  exit 1
fi
```

```
# Use sed to replace old_text with new_text and output to a new file
sed "s/$old_text/$new_text/g" "$input_file" > "$output_file"

echo "All occurrences of '$old_text' have been replaced with '$new_text' in the file $input_file."
echo "The result has been saved to $output_file."
```