PRACTICAL NO: 07 B

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CODE:

#!/bin/bash

# Create two named pipes (FIFOs)

pipe1="/tmp/pipe1"

pipe2="/tmp/pipe2"

# Remove any pre-existing pipes, if any

rm -f $pipe1 $pipe2

# Create the named pipes

mkfifo $pipe1

mkfifo $pipe2

# Function for the first process

process1() {

while true; do

echo "Enter a sentence (or type 'exit' to quit):"

read sentence

if [[ "$sentence" == "exit" ]]; then

break

fi

# Send the sentence to process 2 through pipe1

echo "$sentence" > $pipe1

# Read the response from process 2 through pipe2

cat < $pipe2

done

# Cleanup

rm -f $pipe1 $pipe2

exit 0

}

# Function for the second process

process2() {

while true; do

# Read the sentence from process 1 through pipe1

sentence=$(cat < $pipe1)

if [[ "$sentence" == "exit" ]]; then

break

fi

# Count characters, words, and lines

char\_count=$(echo -n "$sentence" | wc -c)

word\_count=$(echo -n "$sentence" | wc -w)

line\_count=$(echo -n "$sentence" | wc -l)

# Write the output to a file

output\_file="/tmp/output.txt"

echo "Characters: $char\_count" > $output\_file

echo "Words: $word\_count" >> $output\_file

echo "Lines: $line\_count" >> $output\_file

# Send the contents of the file back to process 1 through pipe2

cat $output\_file > $pipe2

done

}

# Run the processes in the background

process2 & process1

OUTPUT:

