Write a program to load ALP program from input file to main memory.

**#!/bin/bash**

**# Simulated main memory file**

**MEMORY\_FILE="main\_memory.txt"**

**# Input ALP file**

**read -p "Enter the ALP input file name: " input\_file**

**# Check if the input ALP file exists**

**if [ ! -f "$input\_file" ]; then**

**echo "Input file does not exist."**

**exit 1**

**fi**

**# Clear the memory file before loading new content**

**> "$MEMORY\_FILE"**

**# Load ALP into simulated main memory**

**echo "Loading ALP program into main memory..."**

**line\_number=1**

**while IFS= read -r line; do**

**echo "Loading line $line\_number: $line"**

**echo "$line" >> "$MEMORY\_FILE"**

**((line\_number++))**

**done < "$input\_file"**

**echo "ALP program loaded into main memory (stored in $MEMORY\_FILE)."**