package main

import (

"bufio"

"crypto/sha256"

"encoding/hex"

"fmt"

"os"

"strings"

)

// words := []string{"abc", "efdasakj", "hellow"}

// for \_, word := range words {

// hash := sha256.Sum256([]byte(word))

// hashString := hex.EncodeToString(hash[:])

// fmt.Println(word, "→", hashString)

// if hashString == fixhash {

// fmt.Println("match found for word:", word)

// }

// }

func main() {

// The hash you want to compare against

fixhash := "123jhkasj1j27asdas" // sample placeholder hash

// Option 1: read words from a file

file, err := os.Open("words.txt")

if err != nil {

fmt.Println("Error opening file:", err)

return

}

defer file.Close()

scanner := bufio.NewScanner(file)

for scanner.Scan() {

word := strings.TrimSpace(scanner.Text())

if word == "" {

continue

}

// Compute SHA256 hash

hash := sha256.Sum256([]byte(word))

hashString := hex.EncodeToString(hash[:])

fmt.Printf("Word: %-15s Hash: %s\n", word, hashString)

// Compare with fixed hash

if hashString == fixhash {

fmt.Println("Match found for word:", word)

}

}

if err := scanner.Err(); err != nil {

fmt.Println("Error reading file:", err)

}

}