User Guide Documentation – Morse Code

Introduction

Purpose:

Welcome to the Morse Code Translator! This tool is designed to encode and decode text between English and Morse code. The program provides a user-friendly command-line interface and supports various features such as file handling and the ability to handle infinitely long lines of input.

Features:

- Encode English text to Morse code.
- Decode Morse code to English text.
- Translate input from standard input (stdin) or files.
- Maintain a history of translations.
- Handle infinitely long lines of input.

Usage

Command-Line Interface

The Morse Code Translator is a command-line tool. To use it, open a terminal and navigate to the program's directory. Execute the program using:

```
morse <switch> <filename>
```

Switches

-c: Encode English text to Morse code.
-d: Decode Morse code to English text.
-h: View or delete translation history.

Examples:

To encode a personalized input (no punctuation marks):

```
morse -c encode.txt
```

To encode an existing file (it has to exist and to be right formatted for encoding – no punctuation marks):

```
morse -c <your-filename>
```

To decode personalized input ('.' and '_'; delimit the letters by space and represent the space with " / "):

```
morse -d decode.txt
```

To decode an existing file (it has to exist and to be right formatted for decoding: '.' and '_'; delimit the letters by space and represent the space with " / "):

```
morse -c <your-filename>
```

To view the history of English text to Morse code translation, use:

```
morse –h e2m
```

To view the history of Morse code to English text translation, use:

```
morse –h m2e
```

Error messages

You may encounter error messages for various reasons, such as memory allocation failure, incorrect input, or the absence of a file (this may happen when you choose to manipulate an existing file). Do not worry; these messages are designed to guide you through the issues and offer explicit explanations as to why the error occurred.