USER MANUAL

WHAT DOES IT DO?

This is a command-line tool which compresses files using Huffman algorithm. You can have smaller sized files using this technique.

WHICH FILES DOES IT SUPPORT?

It is tested on many text files less than 100kb. It may compress other files too but decompressing may result in data loss.

HOW TO RUN IT?

1. Execute huffman.exe

In console, you can navigate through menu by typing option number shown on the screen and then pressing Enter.

You will see a language selection screen first, which is not a complete feature.

2. Main Menu

1. **Compress a file.**
    - To compress a file, first you need to put the file into the **input** folder, which is located in here: */files/input*
    - Then you can select **1** in main menu.

```
Welcome! What would you like to do?
1-Compress file
2-Extract file
3-Exit the program
4-About
Please enter the filename in input folder (with extension): test.txt_
```

ℹ *This screen will show up after pressing **1**. Type the file name which you put into the **input** folder. After pressing Enter, program will compress the file and give you the details.*

ℹ *You can find your compressed files in **files/output** folder.*

2. **Extract a file.**
   - To extract a file, steps are exactly the same. You need to put the file into the **input** folder, which is located in here: */files/input*
   - Then you can select **2** in main menu.

> ℹ The same screen will show up after pressing 2. Type the file name which you put into the **input** folder. After pressing Enter, program will compress the file and give you the details.
>
> ℹ You can find your extracted files in **files/output** folder.

3. **Exit the program.**
   - Press **3** in main menu to exit the program.
   - You can also press ESC key to exit the program.

*You can press **4** to get information about development.*

3. Known Bugs

- There are memory leaks and data loss in arrays. This is prevented by using some extra code in the current state of development. It is working in terms of functionality but this is still not enough. It may crash and terminate after some process.
- Program may fail and terminate if file is very big.