

Evaluation for task 2

Task 2 is basically the user entering a sentence which is then turned into a list. From there, the words are taken from the list and stored in a file, as well as the words positions being stored in another file. Apparently, this is compressing... (it's not).

My task 2 does exactly this, it can take any sentence or paragraph and split it up into words which are then stored in two separate files of words and positions. This also includes and punctuation and capitalisation.

In terms of difficulty, I found task 2 easier than task 1 as I could take my string formatting and while loop knowledge from task 1 over to task 2. Then all I needed to do was use For loops after opening or creating files to write to. This was easily done with a little research online.

Let's take a look at the criteria list from the task analysis for task 2.

- ✓ Sentence input
- ✓ Sentence into list
- ✓ List written to file
- ✓ For loops for lists
- ✓ Keep capitalisation and punctuation

```
import string
loop = True
while loop is True:
    sentence = input("Enter sentence to compress: \n>")
    if not any(word in sentence for word in string.ascii_letters):
        print("What do you expect me to do with this?")
    else:
        loop = False
sentencelist = sentence.split()
words = {}
index = 0
for word in sentencelist:
    if word not in words:
        words[word] = index
        index += 1

with open('index.txt', 'w') as f:
    for word in sentencelist:
        f.write('%d\n' % words[word])

with open('words.txt', 'w') as f:
    for word in sentencelist:
        f.write(word + '\n')
print("File compressed into indexes and words.")
```

Sentence input

Sentence to list

For loop to create list

List written to file

List written to file