Homework #11

01286120 Elementary Systems Programming

Software Engineering Program

Faculty of Engineering, KMITL

By

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1. Write functions that manage paragraphs in documents

1.1) Write the function make_document(text) that takes a string text representing a document and breaks it into paragraphs separated by an empty blank line.

(Code in attached file)

```
    Finished dev [unoptimized + debuginfo] target(s) in 0.27s
    Running `target\debug\q1_.exe`
["The quick brown fox jumps over the lazy dog."]
["a", "b", "c"]
["The bustle in a house\nThe morning after death\nIs solemnest of industries\nEnacted upon earth,-", "The sweeping up the heart,\nAnd putting love away\nWe shall not want to use again\nUntil eternity.\n"]
```

1.2) Write the function rank_documents(docs) that sorts docs which is a list of documents by the number of paragraphs contained each document in a descending order

(Code in attached file)

```
    Finished dev [unoptimized + debuginfo] target(s) in 0.29s
    Running `target\debug\q1_.exe`
["a", "b", "c"]
["The bustle in a house\nThe morning after death\nIs solemnest of industries\nEnacted upon earth,-", "The sweeping up the heart,\nAnd putting love away\nWe shall not want to use again\nUntil eternity.\n"]
["The quick brown fox jumps over the lazy dog."]
```

2. Write programs that manage paragraphs in documents

2.1) Write a program that reads a list of files with each file loaded into each document in a list of documents in the program and generates an HTML table reporting the number of paragraphs in each file sorted in a descending order.

(Code in attached file)

File	Number of Paragraphs
file/para3.txt	3
file/bustle.txt	2
file/fox.txt	1
file/none.txt	0

2.2) Modify a program in 2.1) to count total words in each documents and generates an HTML table reporting the number of words in each file sorted in a descending order.

(Code in attached file)

File	Number of Words
file/bustle.txt	34
file/fox.txt	9
file/para3.txt	3
file/none.txt	0