Main function:

1. Takes parameters ‘textfile1’, ‘textfile2’ and ‘feature’:
2. Reads the files into ‘file1’ and ‘file2’
3. Compares the file and returns ‘score’, ‘profile1’, and ‘profile2’
4. Returns ‘score’, ‘profile1’ and ‘profile2’

Function to read file:

1. Takes in ‘textfile1’ and ‘textfile2’
2. Reads ‘textfile1’ as 1 string ‘file1’
3. Reads ‘textfile2’ as 1 string ‘file2’
4. Closes ‘textfile1’ and ‘textfile2’
5. Returns ‘file1’ and ‘file2’

Function for comparison:

1. Takes in ‘feature’, ‘file1’ and ‘file2’
2. If ‘feature’ = ‘conjunctions’ call conjunctions()
3. If ‘feature’ = ‘unigrams’ call unigrams()
4. If ‘feature’ = ‘punctuation’ call punctuation()
5. If ‘feature’ = ‘composite’ call composite()
6. Calculate the score using score()
7. Return ‘profile1’, ‘profile2’ and ‘score’

Conjunctions Function:

1. Takes in ‘file1’ and ‘file2’
2. Splits ‘file1’ into a list of strings of all words ‘file1words’
3. Splits ‘file2’ into a list of strings of all words ‘file2words’
4. Counts the appearance of conjunction words in ‘file1words’ and creates ‘profile1’: a dictionary of the count of these conjunction words
5. Counts the appearance of conjunction words in ‘file2words’ and creates ‘profile2’: a dictionary of the count of these conjunction words
6. Returns ‘profile1’ and ‘profile2’

Unigrams Function:

1. Takes in ‘file1’ and ‘file2’
2. Splits ‘file1’ into a list of strings of all words ‘file1words’
3. Splits ‘file2’ into a list of strings of all words ‘file2words’
4. Counts the appearance of each word in ‘file1words’ and creates ‘profile1’: a dictionary of the count of each word
5. Counts the appearance of each word in ‘file2words’ and creates ‘profile2’: a dictionary of the count of each word
6. Returns ‘profile1’ and ‘profile2’

Punctuation Function:

1. Takes in ‘file1’ and ‘file2’

2. Splits ‘file1’ into a list of strings of commas, semicolon, single quotes and hyphens surrounded by words: ‘file1punctuation’
3. Splits ‘file2’ into a list of strings of commas, semicolon, single quotes and hyphens surrounded by words: ‘file2punctuation’
4. Counts the number of each punctuation mark in ‘file1punctuation’ and creates ‘profile1’: a dictionary of the count of these punctuation marks.
5. Counts the number of each punctuation mark in ‘file2punctuation’ and creates ‘profile2’: a dictionary of the count of these punctuation marks.
6. Returns ‘profile1’ and ‘profile2’

Composite Function:

1. Takes in ‘file1’ and ‘file2’
2. Splits ‘file1’ into a list of paragraphs: ‘file1paragraphs’
3. Splits ‘file2’ into a list of paragraphs: ‘file2paragraphs’
4. Splits ‘file1’ into a list of sentences: ‘file1sentences’
5. Splits ‘file1’ into a list of sentences: ‘file1sentences’
6. Counts the number of paragraphs and number of sentences and creates ‘profile1’: a dictionary with these counts
7. Counts the number of paragraphs and number of sentences and creates ‘profile2’: a dictionary with these counts
8. Returns ‘profile1’ and ‘profile2’

Score Function:

1. Takes in ‘profile1’ and ‘profile2’
2. Calculates score between the two profiles
3. Returns ‘score’