**Technical Design Document: MarquesePendergrass\_ProgrammingExercise\_2.py**

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**Date Created:** September 20th, 2025

**Program Description:**

Program is an email spam checker that uses a list of many common spam words, checks through the list, and compares it to the message to determine the likelihood that said message is spam.

**Functions used in the Program:**

1. **Function Name:** score\_counter(text, words)

**Description:** counts the number of words that appear in the user’s input

**Parameters:**

1. text – email message entered by user
2. words – spam keywords

**Variables:**

1. found - dictionary for storing keywords and count
2. score - number of spam words found
3. w - loop for each spam word
4. c - count of matches for said word

**Logical Steps:**

1. Loop through the words in the list of common spam words
2. Count how many times it appears
3. If it’s found add it to found variable
4. Returns the score and the dictionary

**Returns:**

1. The total spam score

2. Dictionary for the found words

1. **Function Name:** spam\_likelihood(score)

**Description:**

Uses spam score and gives them the appropriate likelihood of being spam based off said score

**Parameters:** Score from the score counter

**Variables:** None

**Logical Steps:** Compare score to numbers and appropriate numbers

**Returns:** Likelihood string

1. **Function Name:** main()

**Description:** gets user input and print results

**Parameters:** None

**Variables:**

1. msg - email message input from user
2. score - spam score
3. found - found spam words

**Logical Steps:**

1. Get email message from user
2. Use email message for score\_counter
3. Use score\_counter for spam likelihood
4. Print results

**Returns:** None

**Logical Steps:**

1. User enters email message
2. Program scans message for spam keywords
3. Program gives it a score value for spam likelihood
4. Program displays results

**Link to repository:** https://github.com/Tpender4/COP2373.git

**Output Screenshot:**

**A screen shot of a computer

AI-generated content may be incorrect.**