

# Technical Design Document: ZachariahKersey\_ProgrammingExercise\_2

# Name: Zachariah Kersey

# Date: February 9, 2026

# Program Description: Determines the spam risk of an email

## Function: analyzeEmail

Analyzes the words found in the email and generates a spam score.

Parameters:

None

Variables:

score (int): The spam score.

wordsFound (list): A list of spam keywords words found in the email.

SPAM\_KEYWORDS (list): A list of commonly used spam keywords.

email (str): The email's contents inputted by the user.

Logic:

1. Receive email's contents from user input.
2. Loop over every spam keyword in SPAM\_KEYWORDS.
3. Increase spam score if current spam keyword is found in the email.
4. Append the current spam keyword to the list of found words.
5. Return the spam score and list of keywords words found in the email.

Returns:

tuple:

spamScore (int): The spam score.

wordsFound (list): A list of words found in the email.

## Function: analyzeScore

Analyzes the spam score and displays the risk of the email.

Parameters:

score (int): The spam score.

found\_keywords (list): A list of spam keywords found in the email.

Variables:

risk (str): The calculated risk based on the spam score.

Logic:

1. Print the calculated spam score.
2. Set the risk value based on the spam score.
3. Print the risk value.
4. Print any spam keywords found in the email or none if none found.

Returns:

None

#Link to your repository: <https://github.com/Z-Money?tab=repositories>

```
Enter the email's contents: Subject: CONGRATULATIONS Zachariah!! You Are The Lucky Winner of $2,450,000 USD! Dear friend, URGENT - FINAL WINNER NOTIFICAT

Spam Score: 14/30
Likelihood that message is spam: High likelihood

Suspicious words/phrases found:
- Act now
- Urgent
- Don't miss out
- Hurry
- Risk-free
- No hidden fees
- Congratulations
- Confidentiality
- Dear friend
- Get rich quick
- Winner
- Do it today
- Dollars
- Last chance

Process finished with exit code 0

Enter the email's contents: Subject: Special Offer Just for You - Save Big This Week Hi Zachariah, We noticed you might be interested in making extra cas

Spam Score: 6/30
Likelihood that message is spam: Medium likelihood

Suspicious words/phrases found:
- Earn extra cash
- Limited time
- Risk-free
- Cancel at any time
- No obligation
- Don't hesitate

Process finished with exit code 0

Enter the email's contents: Subject: Family Photos from Last Weekend Hey Zach, Hope you're doing well in Bradenton! I finally got around to sorting the p

Spam Score: 1/30
Likelihood that message is spam: Low likelihood

Suspicious words/phrases found:
- Important

Process finished with exit code 0
```