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**Program Description:** This program prompts the user to type out an email message and scans it for commonly used spam email words and phrases from a set list. The program counts these instances and attributes them to a score, spam likelihood rating, and a list of the spam words found in the user's email, all of which are displayed at the end.

**Functions Used in the Program:**

***#1***

**Function Name:** spam\_check(email)

**Description:** Scans the users email for spam words, increasing the spam score with each instance and adding the word to a list.

**Parameters:**

* email(string) - users written email message

**Variables:**

* spam\_list(list) - common spam words and phrases that will be looked for in the users email message.
* spam\_score(integer) - total number of times a spam word from the set list appears in the email.
* email\_spam(list) - container for holding what spam words are detected in email.
* n(integer) - placeholder variable used to track changes in spam\_score value, signifying a new word needs to be added to email\_spam.

**Logical Steps:**

1. Scan user email for words from spam\_list
2. Increase score by amount of times the word appears in the email
3. If spam score changed, add the word that caused the change to email\_spam list
4. Repeat for every word in spam\_list
5. Return spam score and email spam words

**Returns:**

* spam\_score(integer) - total number of times a spam word from the set list appears in the email.
* email\_spam(list) - list of what spam words are detected in the email.

***#2***

**Function Name:** main()

**Description:** Prompts the user to type out an email message that will be scanned for common spam words from a set list. Calculate and display the email's spam score, likelihood of being spam, and spam words that appear in the email.

**Parameters:** None

**Variables:**

* email(string) - users typed out message input
* spam\_score(integer) - total number of times a spam word from the set list appears in the email.
* spam\_percent(integer) - ratio of spam words found in email to total number of words in the email.
* email\_spam(list) - list of what spam words are detected in the email.

**Logical Steps:**

1. Prompt user to type an email message
2. Scan email for spam words to receive spam score, spam percent, and found spam words.
3. Print all found information to the user.

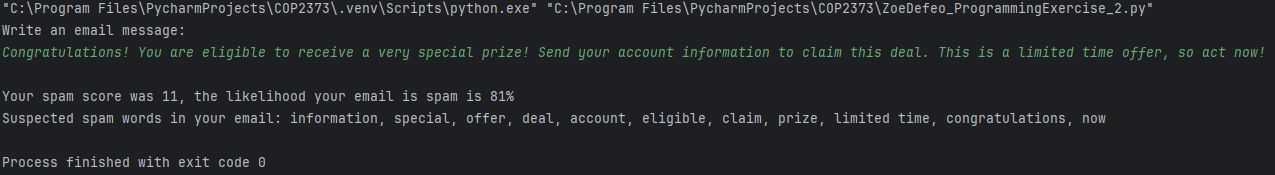
**Returns:** None

**Logical Steps:**

1. Call the main() function
2. The spam\_check() function is called within the main() function

**Link to Repository:** <https://github.com/Zoe-Defeo/COP2373>

**Output Screenshot:**

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