## Pseudo-code

*You will not need to write code here, only provide pseudo-code, or written solutions.*

1. Our company delivers email to our clients. Provide a solution that will allow us to monitor click through and email opens.
2. Our company needs to send out time sensitive and highly personal information to clientele. Information cannot be available in a savable format at any time. So no emails, faxes, texts, or anything that would leave a paper trail. How would you solve this problem and what technologies would you use? What questions would you ask to further your solution or find a better solution?

## Code:

1. **Class Implementation:**Represent a 6 string guitar (standard tuning, 2 fret boards) and a 4 string bass (standard tuning, 3 frets) in a class structure. Create attributes, elements, functions and any other components you feel they may have.
   1. Consider where they are similar and where they are different.
   2. Consider we want to identify if the note from one is equal to the other based on the fret position and string played.   
      
2. **Application Development**  
   Develop an application that will count the number of words & lines that have more than 3 vowels per word in every 3rd line. Use a language you have not used before (Python, Lisp, JavaScript, Dart , Hack: choose a language you haven’t used before).

Example: (red is a non-match, bold is a match, grey are non-considered lines)

1. I pledge allegiance to the Flag of the United States of America,
2. and to the Republic for which it stands, one Nation under God,
3. **indivisible**, with liberty and **justice** for all, should be **rendered**
4. by standing at attention facing the flag with the right hand over
5. the heart. When not in uniform men should remove any non-religious
6. **headdress** with their right hand and hold it at the left **shoulder**,
7. the hand being over the heart. Persons in uniform should remain
8. silent, face the flag, and render the military salute.

**Results:** lines: 2, words: 5

1. **Application Extensibility**  
   Adjust the code from code #4 to count for X vowels, for x words, every Xth line.

Example: (red is a non-match, bold is a match, grey are non-considered lines)

Example Parameter: Words: count every **[ 3 ]** words, Count words with: **[2]** or more vowels , every **[2]** lines

1. I pledge allegiance to the Flag of the United States of America,
2. and to the Republic for which it stands, **one** Nation under God,
3. indivisible, with liberty and justice for all, should be rendered
4. by standing at attention facing the flag with the right hand **over**
5. the heart. When not in uniform men should remove any non-religious
6. headdress with **their** right hand and hold it at the left **shoulder**,
7. the hand being over the heart. Persons in uniform should remain
8. silent, face the flag, and **render** the military **salute**.

**Results:** Lines: 4, words: 6