1. Suppose you know the following message was enciphered with Hill (2 dimensions with mod 29):

   ```
   MU J. PU WZ ZQ EI .S
   ```

   Break it knowing the first word of the message is "don".

2. Encipher the message "Hill system can be broken" using Playfair system with key work "writing."

3. Decipher the message:

   ```
   HK BX KR CS SG LZ KR WN SC UH BW BO DU
   ```

   using the Playfair system with key work "ciphers."

4. Encipher the following Charles Dickens quote

   "And I am bored to death with it. Bored to death with this place, bored to death with my life, bored to death with myself."

   using rectangular transposition with key word *attack*.

5. Decipher the following message

   ```
   ELSIW HHDOT GSRTS NLOWO TDEUI OTGIC SHLOT EEUIK ECSOG HNHOA LDIMS
   WELHM RGHIT UTTAO TBWTD HLICI NOPIW RIAIL RSIOL THNID ASEOS YGIRO
   YUTHE GGNRS EWHGH TO
   ```

   knowing it was encipher with rectangular transposition with key word *legally*. Make sure restore spacing between words,capitalization and add punctuation to make it readable.

6. Look on the website for homecoming events at USD. Choose an event that you would be most likely to attend and write that down. I won't make you actually go to the event but consider doing it, it builds school spirit.