Assignment 1

- 1. Use Hill cipher to encipher the message "We live in an insecure world". Use the following Key. $K=[3\ 2;\ 5\ 7]$
- 2. Decrypt the output of Problem 1 using Hill Cipher. (Hint: Find Inverse of K)
- 3. Encrypt the message: "Life is full of surprises" using Vigenere Cipher. Use Keyword "HEALTH".
- 4. Decrypt the output of Problem 3 using Vigenere Cipher. Use same key.
- 5. Use "WEALTH" as sub-key. Encrypt the message "wishyouveryhappynewyear" using Auto-key cipher.
- 6. Decrypt the output of problem 5 using Auto-key cipher. Use "WEALTH" as sub-key.