**IT 6823 Assignment #2**

**Instructions**

* This assignment is based on the learning material of week 5. Practice how to use Caesar Cipher.
* Answer the questions listed below. Save your solution in MS Word file and name it as “Assignment 2\_xxxx.doc”, where xxxx is your KSU NetID.
* Submit your assignment as a MS Word file to the corresponding assignment drop box by the deadline specified in D2L calendar.
* 10 points in total.

1. (2 points) Please encipher the following plaintext with Caesar Cipher and the encryption key of 10: TODAYISTUESDAY;
2. (2 points) In a Caesar cipher, the encryption key is 5, and the ciphertext is LTTIQZHPBNYMDTZWJCFR, please decipher it;
3. (3 points) Decipher the following ciphertext, which was enciphered using the Caesar cipher: TEBKFKQEBZLROPBLCERJXKBSBKQP.
4. (3 points) Let k be the encipherment key for a Caesar cipher. The decipherment key differs; it is 26 – k. One of the characteristics of a public key system is that the encipherment and decipherment keys are different. Why then is the Caesar cipher a classical cryptosystem, not a public key cryptosystem? Be specific.