

## **Fall 2024 CIS 3362 Week One Assignment**

**Assigned: 8/19/2024**

**Due: 8/23/2024 (via Webcourses)**

For questions 1 – 3, decode each message. The techniques used to encrypt the messages are given in parentheses right before the ciphertext. In your write-up, explain the process you used to decrypt and include any code you might have used as an aid.

Please do NOT use websites that automatically solve ciphers as most of your grade will be based on your description of the decryption process and original code you include in your write up.

1) (shift)

eqapqvomdmzgwvmiozmibnittamumabmz

2) (shift)

ncdaodnmzgvodqzgtzvntojwmzvfviyvggjrnnoyzionojbzopnzyojoczxtxgdxivopmzjahjy

3) (affine)

bjdwbqbccnwdmhphuizsbcieruxsdurrizcdwsrnbttudxwsrernabnsdfwswr  
erqfwxsrerjdiductudxnwsrpnhpwsrnrxhwrenheruwxshwswrpfnrwdq  
rqfwbjdwmrdmcrqghztduchuixsdzdfuwdulr

4) Using the affine cipher with **encryption keys**  $a = 17$  and  $b = 15$ , encrypt a message (a nice one) for the course TAs!

### **Files to Submit**

Please submit a .pdf, .doc or .docx file with your write up describing how you broke each cipher (1-3). Most of your grade is based on describing your process and not the final answer. In short, you are being graded on your ability to communicate the process of what you did in addition to whether or not you can break the cipher. If you write any programs, you may either include the text of the program in the write up or attach those programs as separate .java, .c or .py files.