**Project 1**

Write python codes for the following problems.

1. Problem 1: write a code to encrypt and decrypt the following text using Cesar cryptographic algorithm. Key= 3

Plaintext=”*smell fishy*”

1. Problem 2: write a code to encrypt and decrypt the following text using Affine cryptographic algorithm. Key= (3, 15)

Plaintext=” *The quick brown fox jumped over the lazy dog.”*

1. Read data from a file, called as test.txt and create a hash using SHA-224, SHA-256, SHA-384, SHA-512, and MD5 hashing algorithm. This means that your code generates hash using the listed hash algorithm.

You can use methods supported by python in “hashlib” library. The content of test.txt is:

“*Timmie Willie is a country mouse who is accidentally transported to a city in a vegetable basket. When he wakes up, he finds himself in a party and makes a friend. When he is unable to bear the city life, he returns to his home but invites his friend to the village. When his friend visits him, something similar happens.*”

**Due on Friday, October 19th, 12:00 pm**