Name:

Introduction to Cryptography One-Time Pad

Answer the following questions.

(1) A one-time pad is an encryption technique that adds a different key to each letter. For example, if the plain text message that we wish to encrypt is DOLPHIN, and we use a one time pad of XYHSNET, then we compute D+X, O+Y, L+H, P+S, H+N, I+E, and N+T to obtain an encrypted message AMSHUMG. The one-time pad must be at least as long as the message.

Implement a program in Python that

- (a) takes a plaintext message in a string;
- (b) takes a one-time pad in a string;
- (c) prints the encrypted ciphertext obtained by adding each letter of the plaintext message to the corresponding letter in the one-time pad.