A close up of a logo

Description automatically generated

**Lesson 3 Demo 1**

**Send a Message Using Symmetric Cryptography**

|  |
| --- |
| **Objective:** To encrypt and then decrypt a message using symmetric cryptography  **Tools required:** Ubuntu and Web browser  **Pre-requisites:** None |

Steps to be followed:

1. Generating the symmetric key for encryption
2. Using the symmetric key to encrypt and then decrypt the message

**Step 1: Generating the symmetric key for encryption**

1. Visit <https://www.kerryveenstra.com/cryptosystem.html>
2. Click on the **Generate a Symmetric Key** button to generate the key

Graphical user interface, text, application

Description automatically generated

**Step 2: Using the symmetric key to encrypt and then decrypt the message**

1. To encrypt the message, enter the plaintext of your message and your symmetric key. Then press the button to encrypt the plaintext of your message into its ciphertext

Graphical user interface, text, application

Description automatically generated

1. Now to decrypt the message, enter the ciphertext of the message followed by your symmetric key and press the button to decrypt the ciphertext of the message into plaintext

Graphical user interface, text, application

Description automatically generated

The message is now decrypted.