**ReadMe File**

**Overview**

This console application provides three main functionalities:

1. Message Encoder
2. Message Decoder
3. Rock, Paper, Scissors, Lizard, Spock Game

**Features**

**1. Message Encoder**

* Enter a message to be encoded.
* Display the encoded message and its key.

**2. Message Decoder**

* Enter an encoded message and its key to decode.
* Display the decoded message.

**3. Rock, Paper, Scissors, Lizard, Spock Game**

* Start a new game.
* Computer selects a state.
* User selects a state.
* Determine and display the winner.
* Display the current scores.

**Usage**

Run the application, and you will be presented with a menu to select one of the three main functionalities.

**Menu Options**

1. **Message Encoder**
   * Option 1: Enter the message you want to encode.
   * Option 2: Display the encoded message and its key.
   * Option 3: Exit the encoder.
2. **Message Decoder**
   * Option 1: Enter the encoded message and key.
   * Option 2: Display the decoded message.
   * Option 3: Exit the decoder.
3. **Rock, Paper, Scissors, Lizard, Spock Game**
   * Option 1: Start a new game.
   * Option 2: Computer's turn to select a state.
   * Option 3: User's turn to select a state.
   * Option 4: Display the winner of the current round.
   * Option 5: Display the current scores.
   * Option 6: Exit the game.
4. **Exit Application**
   * Exits the application.

**Encoding and Decoding Messages**

**Encoding**

* The message is split into words, reversed, and concatenated without spaces.
* A key is generated based on the word count, a random symbol's ASCII code, and the most frequent letter's frequency in the message.
* The key undergoes transformations to enhance security.

**Decoding**

* The encoded message is split using the key.
* The split parts are reversed and joined to form the original message.

**Rock, Paper, Scissors, Lizard, Spock Game Rules**

* Rock crushes Lizard and Scissors.
* Paper covers Rock and disproves Spock.
* Scissors cuts Paper and decapitates Lizard.
* Lizard eats Paper and poisons Spock.
* Spock vaporizes Rock and smashes Scissors.