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Course Name: Structured Programming

Assignment Number: 2

Task Number: 1

Project That Encrypts / Decrypts text using Polybias Cipher Algorithm.

The program consists of three main functionalities:

Introduction:

Upon execution, the program displays a welcome message explaining the Polybius Cipher and the program's capabilities.

Encryption:

The user is prompted to enter the message they wish to encrypt and a secret key consisting of exactly five digits. The program validates the key length and encrypts the message using the Polybius Cipher algorithm. The encrypted message is then displayed to the user.

Decryption:

The program utilizes the same key used for encryption to decrypt a cipher text provided by the user. The decrypted message is then displayed.

Polybius Cipher Algorithm

The Polybius Cipher is a classic bipartite encryption technique that assigns a two-digit code to each letter in the alphabet using a 5x5 grid. The key determines the specific letter placement within the grid. In this program, the letters 'i' and 'j' are treated as equivalent.