



Network Programming

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Lab 7

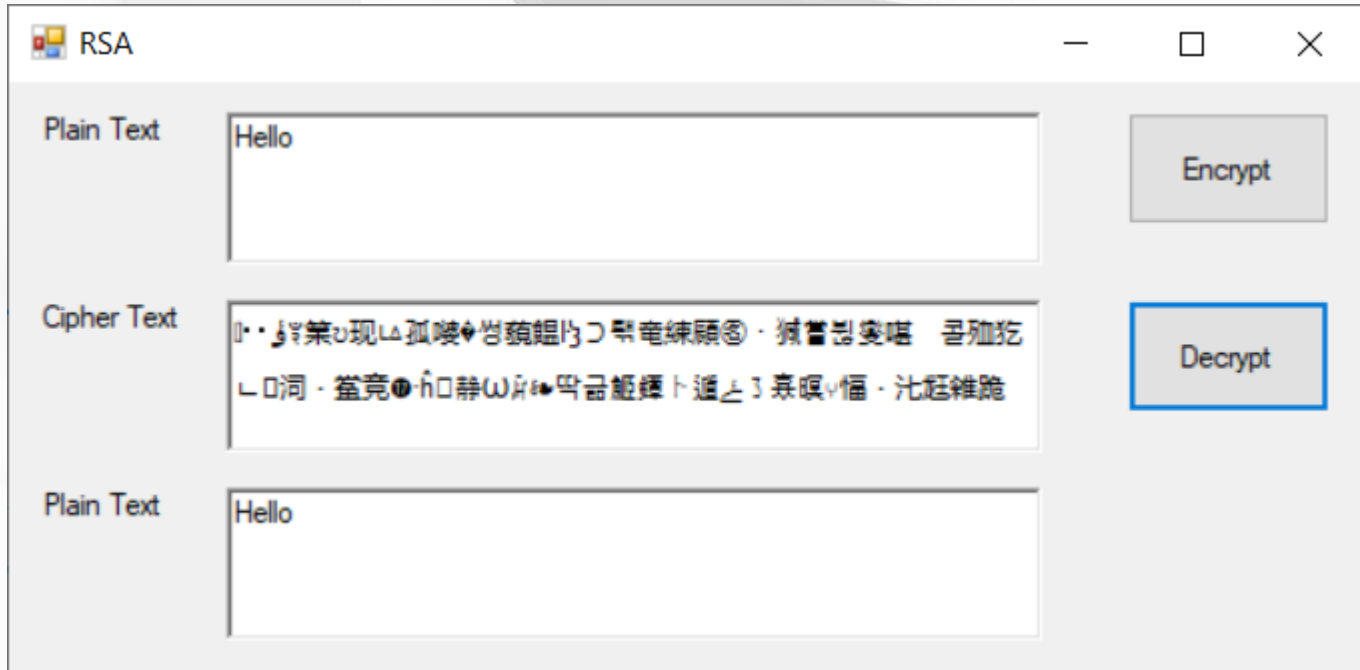
Assignment 1

Write a program to encrypt and decrypt a string using AES algorithm.

[illegible]

Assignment 2

Write a program to encrypt and decrypt a string using RSA algorithm.

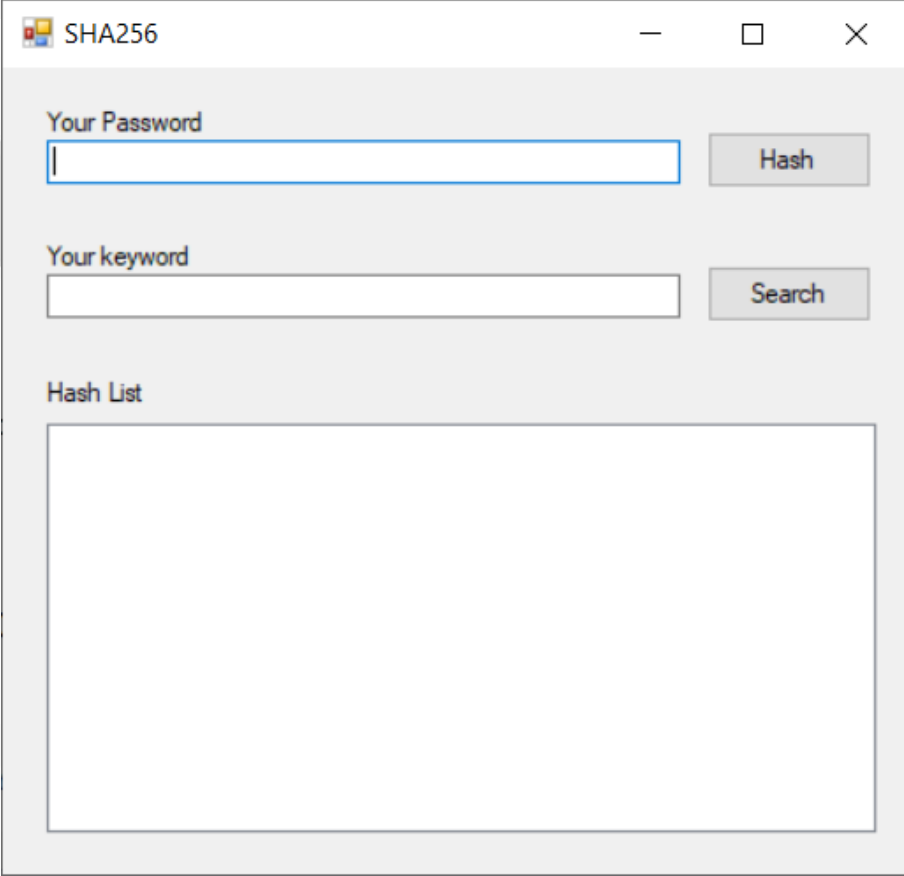


The screenshot shows a window titled "RSA" with standard Windows window controls (minimize, maximize, close). The window contains three text input fields and two buttons. The first input field, labeled "Plain Text", contains the word "Hello". To its right is a button labeled "Encrypt". Below this, the second input field, labeled "Cipher Text", contains a string of garbled characters. To its right is a button labeled "Decrypt", which is highlighted with a blue border. Below the "Cipher Text" field is a third input field, also labeled "Plain Text", which contains the word "Hello".

Assignment 3

Write a program to do the following:

- Create a hash of your password and store it into a list
- Find whether the list contains a hash of a keyword

A screenshot of a Windows application window titled "SHA256". The window has a standard title bar with minimize, maximize, and close buttons. The main content area is light gray and contains three sections. The first section is labeled "Your Password" and features a text input field with a blue border and a "Hash" button to its right. The second section is labeled "Your keyword" and features a text input field and a "Search" button to its right. The third section is labeled "Hash List" and features a large, empty rectangular box for displaying results.

SHA256

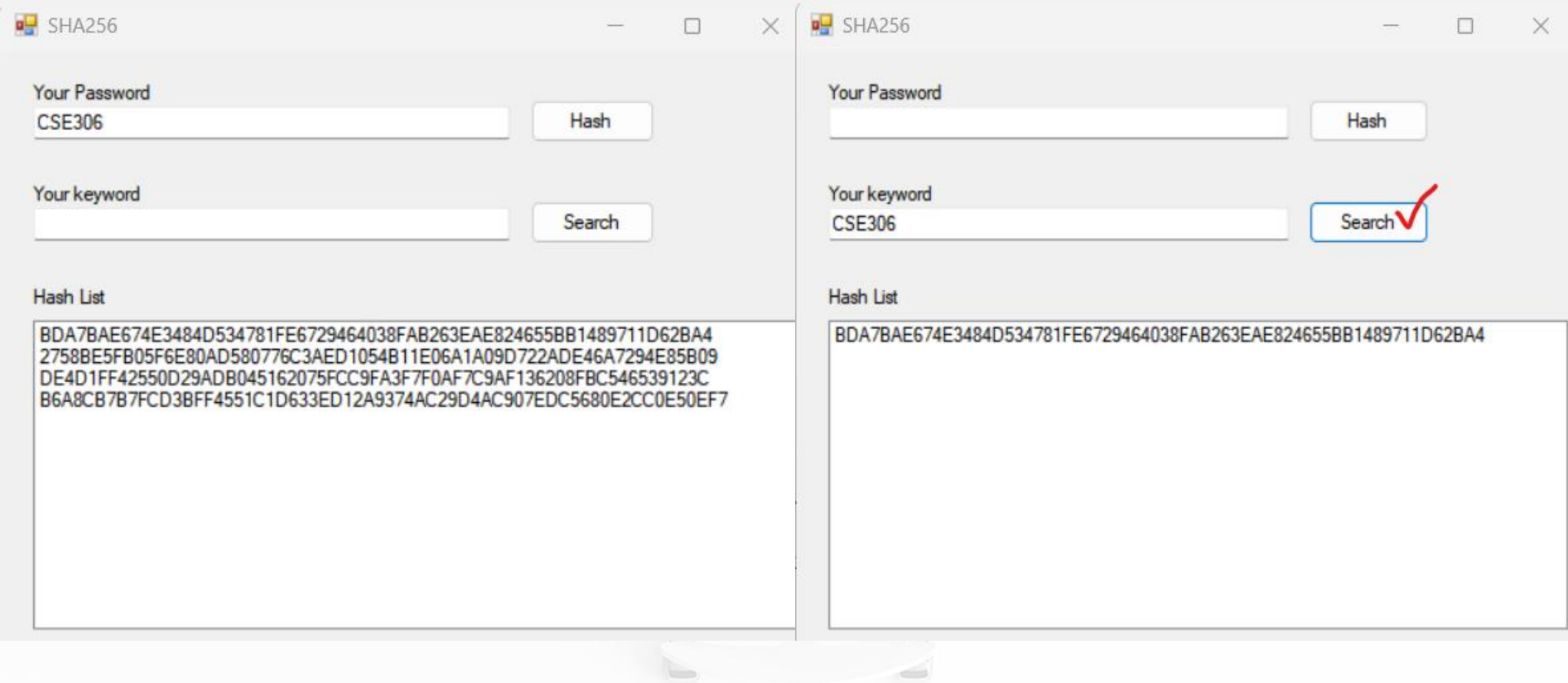
Your Password

Hash

Your keyword

Search

Hash List



Assignment 4

Write a program to do the following:

- Calculate the hash (SHA-1, MD5) of a program (.exe file)
- Compare its hash and return whether its integrity is intact.

