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Simple Encryption

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Introduction

Encryption is the method by which information is converted into secret code that hides the information's true meaning.

Decryption converts an encrypted or encoded message into a readable form and can be understood by the user or system.

Objectives

- ▶ Encrypt or Decrypt any message for security purpose.
- ▶ Hide data from hackers and unwanted people.
- ▶ Using for secret communication.

Tools & Languages used in the Project

- ▶ Using Code Blocks for writing code.
- ▶ Using C(C11) language for developing the program.
- ▶ I use GCC Compiler for compiling the Code.
- ▶ This Program runs on terminal.

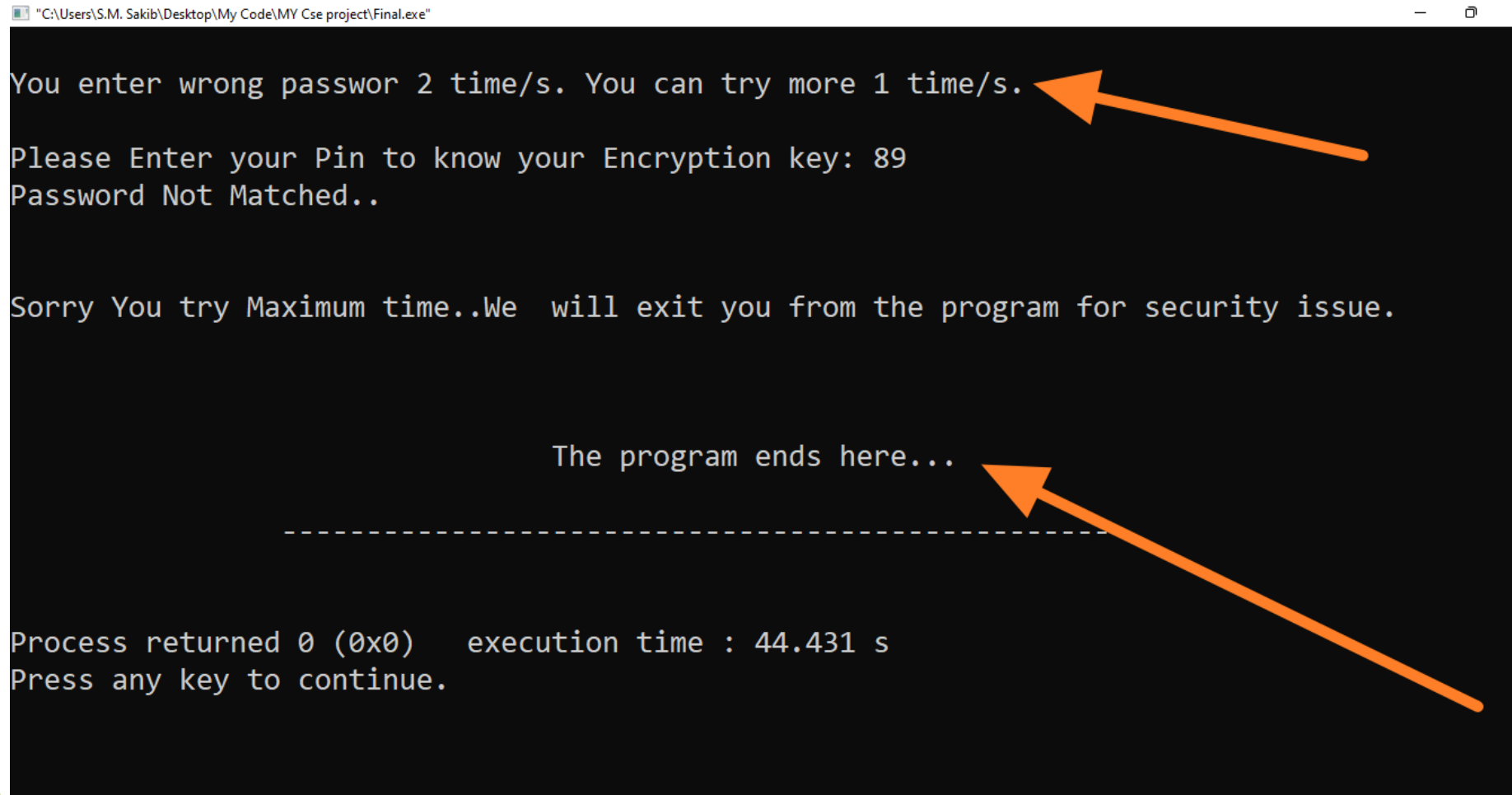
Implementation

Caesar cipher: Caesar cipher is a simple Encryption method that encrypts plain text into cipher text by a key. And if we want to decrypt message we have to know about the key.

```
"C:\Users\S.M. Sakib\Desktop\My Code\MY Cse project\Final.exe"
Please enter E if you want Encryption or press D if you want Decryption: e
Please enter the Plain text: I love CSE
The chipher text is: V ybir PFR
Please Enter your Pin to know your Encryption key: 119804
Password Matched successfully..
Your automatic key is 13
Do you want Encrypt or Decrypt again???
If you want Encrypt or Decrypt again press 'Y'.And if you don't want press 'N':
```

Here the program Encrypted message by using key using 13 which is automatic generated.

If I enter the wrong pin to get the key it will not give me the key to decrypt the message and if put wrong password 3 times program will be closed.



```
"C:\Users\S.M. Sakib\Desktop\My Code\MY Cse project\Final.exe"

You enter wrong passwor 2 time/s. You can try more 1 time/s.
Please Enter your Pin to know your Encryption key: 89
Password Not Matched..

Sorry You try Maximum time..We will exit you from the program for security issue.

The program ends here...
-----

Process returned 0 (0x0) execution time : 44.431 s
Press any key to continue.
```


The screenshot shows a Windows command prompt window titled "C:\Users\S.M. Sakib\Desktop\My Code\MY Cse project\Final.exe". The text inside the window is as follows: "You enter wrong passwor 2 time/s. You can try more 1 time/s.", "Please Enter your Pin to know your Encryption key: 89", "Password Not Matched..", "Sorry You try Maximum time..We will exit you from the program for security issue.", "The program ends here...", a dashed line, "Process returned 0 (0x0) execution time : 44.431 s", and "Press any key to continue.". Two orange arrows are pointing to the first and fourth lines of text.


If I know key and I have encrypted message I can easily decrypt the message.


Select "C:\Users\S.M. Sakib\Desktop\My Code\MY Cse project\Final.exe"

Welcome to Encryption Decryption.

Please enter E if you want Encryption or press D if you want Decryption: d

Please enter the Cipher text: Y belu co tufuhcudj. 

Please enter the Key: 16 

The chipher text is: I love my deperment. 

Do you want Encrypt or Decrypt again???
If you want Encrypt or Decrypt again press 'Y'.And if you don't want press 'N':

features used in this project

- ▶ Auto Encrypt message by a key.
- ▶ To know the key, you need to know the password.
- ▶ If you Enter the wrong password 3 times the program will be closed.
- ▶ You can also decrypt a message using the proper key.

Implementations Limitations & Future Updates

► **Limitation:**

The limitation of the project is it encrypts any message by the key 1-26. So there has the risk to Brute Force attack.

► **Updates:**

(I) In the future I will develop this project using GUI-based Language for getting a better user experience.

(II) I will be using a word type key instead of digits to encrypt the message.

Conclusion

The Encryption and decryption methods used worldwide by tech giant communication company which are very important for securing our messages. We can use encryption methods not only to encrypt our message but also to encrypt any kind of data.

We should keep our data secure our information.

Thank you.