BLACK TEA v1.0.5

Revised 5/13/2020

Black TEA Copyright 2020

What's new in Black TEA v1.0.5?

- Error handling
- Custom password entry
- MD5 password hashing
- File browser / entry
- .txt file support
- Random IV
- CBC mode

Tiny Encryption Algorithm (TEA) - Java Implementation for the JAVA class "TeaProgram.java", "TeaCBCMode.java", "GuiFront.java", "MD5.java"

Licensing:

Licensed under the Apache License, Version 2.0 (the "License"); you may not use this file except in compliance with the License. You may obtain a copy of the License at

http://www.apache.org/licenses/LICENSE-2.0

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied. See the License for the specific language governing permissions and limitations under the License.

NOTICE:

The "TEA" ("Tiny Encryption") Algorithm and the successor "Corrected Block TEA" also known as "XXTEA or XTEA" was published 1994-1998 by Roger Needham, and David Wheeler. Roger Needham, and David Wheeler are here by understood and given complete recognition as the designers of the Tiny Encryption Algorithm that is being used in this program.

Importing This Program:

You will need to import the following files into your IDE in order to work,

- TeaCBCMode.java
- GuiFront.java
- MD5.java

Once in your IDE, you will be able to edit/ run the Black TEA program by running the GuiFront.java class.
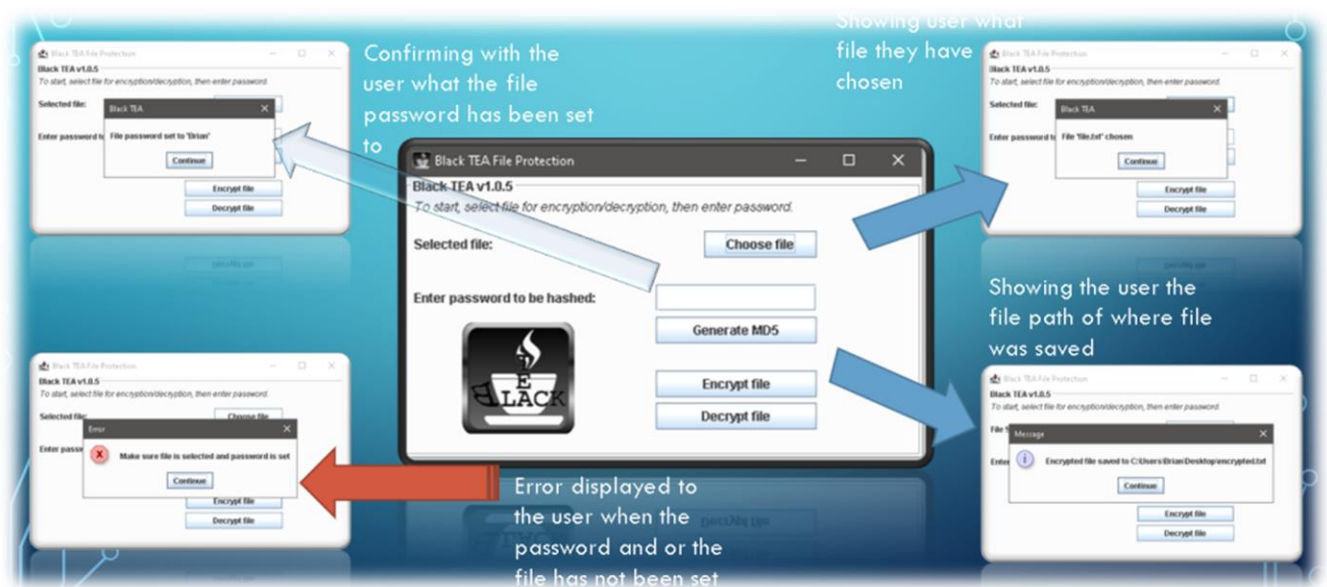
Using This Program:

To begin you will need to have a file on your desktop (must be .txt). After opening the program, you will need to select the "choose file" button in the top right corner. Select the file you want to encrypt. After, enter a password into the text entry box below the choose file button. Now, to encrypt a file, click the "encrypt file" button, a window will pop up and Black TEA will ask you where you want to save the file. Choose a location and click save, your encrypted file has been saved. To decrypt a file, go back to the "choose file" button, select your encrypted .txt file. Now go to the "decrypt file" button, Black TEA will ask where you want to save the new decrypted file, choose a location and click save. Your file has now been saved.

*Please note, the IV (initialization vector) is random with every program run, please encrypt and decrypt file in the same execution of the Black TEA application.

Screen shots:

Black TEA File Protection

Black TEA v1.0.5
To start, select file for encryption/decryption, then enter password.

Selected file: Choose file

File browser option for find files easily

Enter password to be hashed:

Generate MD5

Text box and
button click to add
password to file

Encrypt file
Decrypt file

File dialog to choose
custom location to save
encrypted and
decrypted file, so no
important files are
over written

Choose where to save encrypted file

Look In: Desktop

CCSU Spring20   Network
OneDrive - Central Connecticut State University
Brian
This PC
Libraries
Games

File Name:
Files of Type: All Files

Save   Cancel

Want the .EXE?

Go to