

# Project Title: Text Encryption

**Abstract:** The project Encryptor is an encryption system used to encrypt any text inside a file. It allows the user to select a file in a particular file location on his system and allows him to encrypt the data(text) in the file using Advanced Encryption Standard (AES).

The system generates a cipher, upon which the data in the chosen file is encrypted using AES algorithm, which provides security to the user to send the data without thinking about any intrusion.

**Introduction:** We are in a world where information is everything and privacy is a myth. Sharing any data on internet, just as it is without any additional security measures might lead to a privacy breach. So using an encryption standard to protect the data from a third person is very much necessary.

AES is an perfect way to protect the data from unauthorised access. The AES is hugely popular as its advantage speak for themselves, For instance this encryption standard is freely usable, incurs no licence fees and is not subject to patent restrictions. Added to this come relatively low storage and hardware requirements. The encryption algorithm is uncomplicated and elegant in programming, and is simple to implement.

**Detailed System Description:** The encryption system lets the user encrypt the data in a file, by specifying the file location.

To increase the ease of use of the system, the system is designed such a way that the user only needs to run the java program after specifying the file location.

**Requirements:** Eclipse IDE

JAVA

Literature Survey: When I decided on this kind of project, I had stuck to few things that are to be followed while developing this program. Such as,

Usage of JAVA and its rich libraries.

Fast and Reliable.

Ease of use.

User Manual: The functionality of the system is pretty simple, yet very effective.

When the user runs the java file, he needs to include the path of the file, which he want to encrypt.

The java program selects the file, encrypts it by using AES and creates a new file, which contains the decrypted data of the original file.

Conclusion: The Encryptor provides an easy to use system to a user through which he can encrypt his data to provide security from unauthorised access. It doesn't require much of an infrastructure and will be very effective.

References:

[https://en.wikipedia.org/wiki/Advanced\\_Encryption\\_Standard](https://en.wikipedia.org/wiki/Advanced_Encryption_Standard)

[https://www.nfon.com/en\\_de/solutions/resources/glossary/advanced-encryption-standard/](https://www.nfon.com/en_de/solutions/resources/glossary/advanced-encryption-standard/)

<https://eclipse.org/>

<https://docs.oracle.com/javase/7/docs/api/>

<https://www.java.com/en/>