***SYNOPSIS***

***OF***

***PROJECT ON***

***“ENCRYPTOR AND DECRYPTOR”***

***Introduction:***

* Encryptor:

It is used to convert normal text into cipher text. It helps protect private information, sensitive data, and can enhance the security of communication between the client apps and the servers.

* Decryptor:

It is used to convert cipher text into normal text. Decryption reverses all the encrypted texts and changes it back to its readable original form.

These processes are very important for keeping confidential data such as usernames, passwords, etc safe from hackers.

***Overview***:

* Creating a simple GUI using tkinter.
* Any type of algo like IDEA, MD5, HMAC, AES, etc can be used to cipher ordinary text.
* In order to solve real life problems which includes leak of data we are making a python app which can not only encrypt data but also decrypt it if the person has the encrypted key.

***Advantages:***

1) Unauthorised person cannot access any sensitive type of data.

2) Using encryption is a great way to reduce data leaks.

3) Improve security of data.

***Disadvantages:***

1. Encryption requires a password to encrypt and decrypt the file if you forget the password that you used, you may never be able to recover the data. If you use a password that is easy to guess, your encrypted data is less secure.
2. Encryption of data can lead to huge data loss.

**Usage in industry:**

* It is used in all types of multinational companies such as Google, Instagram, Facebook, etc.

**References:**

* Google, Stack overflow, Python documentation, etc.

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