

## Cryptography Experiments: Caesar Cipher & Vigenère Cipher

This document summarizes two classic encryption algorithms implemented in Python.

### 1. Caesar Cipher

A substitution cipher where each letter is shifted by a fixed number.

Features:

- Works for uppercase and lowercase
- Preserves spaces and punctuation
- Reversible using the same shift

### 2. Vigenère Cipher

A polyalphabetic cipher using a repeating key to shift letters.

Features:

- Class-based structure
- Auto key cycling
- Supports mixed case
- Ignores non-alphabetic characters

How to Run:

```
python Expt1Caesar.py
```

```
python "Expt1 Vigenere.py"
```

Project Structure:

Cryptography-Experiments/

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■■■ Expt1Caesar.py

■■■ Expt1 Vigenere.py

■■■ README\_Cryptography.pdf

