

LAPORAN HASIL PERBANDINGAN
CAESAR CIPHER DAN VIGENERE CIPHER
PADA PYTHON DAN CRYPTOOOL

Dosen Pengampu : Kodrat Mahatma



Disusun oleh : Kelompok 5

Siti Fatimah (20123062)

Jesi Rosyanti (20123053)

PROGRAM STUDI INFOMATIKA S1
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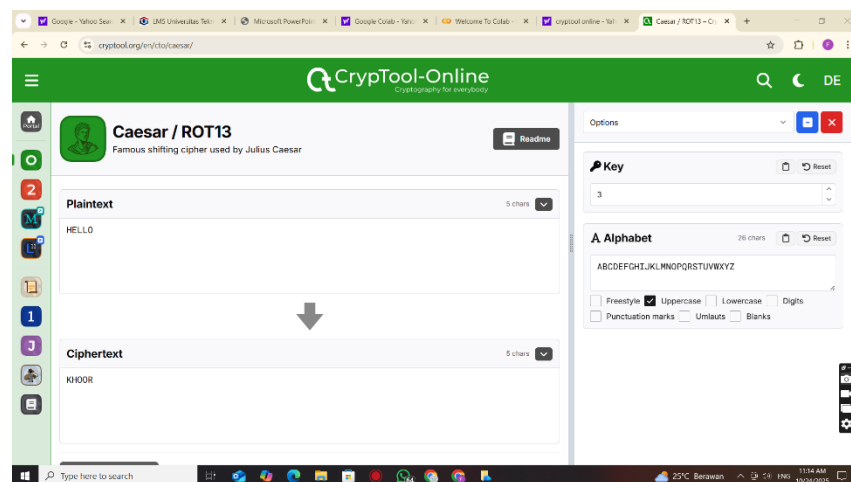
1. Perbandingan Caesar cipher pada program python dan cryptool

- Caesar cipher pada program python

```
def caesar_encrypt(text, shift):
    result = ''
    for char in text:
        if char.isalpha():
            base = ord('A') if char.isupper() else ord('a')
            result += chr((ord(char) - base + shift) % 26 + base)
        else:
            result += char
    return result
print(caesar_encrypt('HELLO', 3))
```

KHOOR

- Caesar cipher pada cryptool



2. Perbandingan vigenere cipher pada program pythn dan cryptool

- Vigenere cipher pada program python

```
def vigenere_encrypt(plain, key):
    key = key.upper()
    result = ''
    for i, char in enumerate(plain.upper()):
        if char.isalpha():
            shift = ord(key[i % len(key)]) - 65
            result += chr((ord(char) - 65 + shift) % 26 + 65)
        else:
            result += char
    return result
print(vigenere_encrypt('ATTACKATDAWN', 'LEMON'))
```

LXFOPVEFRNHR

- Vigenere cipher pada cryptool

The screenshot displays the 'Crypt-Online' website, which is a web-based cryptography tool. The main section is titled 'Vigenère and variants' and describes it as the 'First strong polyalphabetic cipher that inspired many other ciphers'. The interface is divided into several sections:

- Plaintext:** A text input field containing 'ATTACKATDMN'.
- Key:** A text input field containing 'LEON'.
- Ciphertext:** A text output field showing 'LX?OPVE?NIR'.
- Terminal command:** A section showing a command to run in a terminal: `python VigenereApp11w.py --encrypt --message=ATTACKATDMN --variant=vigenere --key=LEON --alphabet=ABC`.
- Options:** A sidebar on the right with settings for 'Vigenere variant' (set to 'Vigenere') and 'A Alphabet' (set to '26 chars'). It also includes checkboxes for 'Friendly', 'Uppercase', 'Lowercase', 'Digits', 'Punctuation marks', 'Underscore', and 'Blank'.

 The website has a green header with the 'Crypt-Online' logo and a navigation menu. The bottom of the image shows a Windows taskbar with various application icons and a system clock indicating 10:58 AM on 10/26/2025.