**Laporan praktikum**

**Membuat Aplikasi Python untuk Enkripsi dan Dekripsi Caesar Ciphertext**

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Disusun Oleh:

Nama Kelompok:

Regi Febian Guteres:2055201065

Fekri Pratama:2055201051

Heru Susanto:2055201020

UNIVERSITAS MUHAMMADIYAH BENGKULU

FAKULTAS TEKNIK

TEKNIK INFORMATIKA

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1.Pembuat Bagian Desain :

Nama: Regi Febian Guteres

Npm: 2055201065

*Code*

app = tk.Tk()

app.title("Caesar Cipher")

plaintext\_label = tk.Label(app, *text*="Ketik Plaintext atau Ciphertext:")

plaintext\_label.pack()

plaintext\_text = tk.StringVar()

plaintext\_entry = tk.Entry(app, *textvariable*=plaintext\_text)

plaintext\_entry.pack()

shift\_label = tk.Label(app, *text*="Jumlah Pergeseran:")

shift\_label.pack()

shift\_entry = tk.Entry(app)

shift\_entry.pack()

encode\_button = tk.Button(app, *text*="Encode Caesar Cipher", *command*=encrypt)

encode\_button.pack(*side*="left")

decode\_button = tk.Button(app, *text*="Decode Caesar Cipher", *command*=decrypt)

decode\_button.pack(*side*="right")

result\_text = tk.StringVar()

result\_label = tk.Label(app, *text*="Hasil:")

result\_label.pack()

result\_entry = tk.Entry(app, *textvariable*=result\_text, *state*="readonly")

result\_entry.pack()

app.mainloop()

2.Pembuat Bagian fungsi Enkripsi: Heru Susanto

Nama:Heru Susanto

Npm:2055201020

*Code*

*def* caesar\_cipher(*text*, *shift*):

    result = ""

    for char in *text*:

        char\_code = (ord(char) + *shift*) % 256

        result += chr(char\_code)

    return result

*def* encrypt():

    plaintext = plaintext\_text.get()

    shift = int(shift\_entry.get())

    ciphertext = caesar\_cipher(plaintext, shift)

    result\_text.set(ciphertext)

3,Pembuat Fungsi Dekripsi:

Nama: Fekri Pratama

Npm:2055201051

*Code*

import tkinter as tk

*def* caesar\_decipher(*text*, *shift*):

    result = ""

    for char in *text*:

        char\_code = (ord(char) - *shift*) % 256

        result += chr(char\_code)

    return result

*def* decrypt():

    ciphertext\_text = tk.StringVar()

    ciphertext = ciphertext\_text.get()

    shift = int(shift\_entry.get())

    plaintext = caesar\_decipher(ciphertext, shift)

    result\_text.set(plaintext)

Lampiran Gambar



