LAPORAN PRAKTIKUM
KEAMANAN SISTEM INFORMASI DAN JARINGAN

Disusun Oleh :

Nama	: Fahmi Adi Setiawan
NIM	: 22230010
Mata Kuliah	: Keamanan Sistem Informasi dan Jaringan

Program Studi Sistem Informasi

Fakultas Sains dan Teknologi

Universitas Respati Yogyakarta

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Kodingan dan hasil Running

```
from Crypto.Cipher import DES
from Crypto.Random import get_random_bytes
from Crypto.Util.Padding import pad, unpad

# Buat kunci DES (harus 8 byte)
key = b'12345678'  # 8 bytes

# Bikin cipher object
cipher = DES.new(key, DES.MODE_ECB)

# Pesan yang mau dienkripsi
data = b'Mataram, mata air kehidupan'
padded_data = pad(data, DES.block_size)  # padding biar kelipatan 8

# Enkripsi
encrypted = cipher.encrypt(padded_data)
print("Encrypted:", encrypted.hex())

# Dekripsi
cipher2 = DES.new(key, DES.MODE_ECB)
decrypted_padded = cipher2.decrypt(encrypted)
decrypted = unpad(decrypted_padded, DES.block_size)
print("Decrypted:", decrypted.decode())
```

[3]:
```
pip install pycryptodome
```

```
Collecting pycryptodome
  Downloading pycryptodome-3.23.0-cp37-abi3-win_amd64.whl.metadata (3.5 kB)
Downloading pycryptodome-3.23.0-cp37-abi3-win_amd64.whl (1.8 MB)
   ---------------------------------------- 0.0/1.8 MB ? eta -:--:--
   ----- ---------------------------------- 0.3/1.8 MB ? eta -:--:--
   ---------------- ---------------------- 0.8/1.8 MB 2.2 MB/s eta 0:00:01
   ---------------------- ---------------- 1.0/1.8 MB 2.1 MB/s eta 0:00:01
   ---------------------------- ---------- 1.3/1.8 MB 1.7 MB/s eta 0:00:01
   ---------------------------------- ----- 1.6/1.8 MB 1.9 MB/s eta 0:00:01
   ---------------------------------- ----- 1.6/1.8 MB 1.9 MB/s eta 0:00:01
   ---------------------------------- ----- 1.6/1.8 MB 1.9 MB/s eta 0:00:01
   ---------------------------------------- 1.8/1.8 MB 1.1 MB/s eta 0:00:00
Installing collected packages: pycryptodome
Successfully installed pycryptodome-3.23.0
Note: you may need to restart the kernel to use updated packages.
```

[5]:
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```

```
Encrypted: 78fdfd083678960292e9d3355b8ec293806d67d064c8a4bdc6a2d91c30ef8a8c
Decrypted: Mataram, mata air kehidupan
```