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import hashlib
from Crypto.Cipher import AES
from Crypto.Random import get_random_bytes
import base64
import os

def pad(text):
    while len(text) % 16 != 0:
        text += ' '
    return text

def get_key_from_password(password):
    return hashlib.sha256(password.encode()).digest()

def encrypt_message(message, password):
    key = get_key_from_password(password)
    iv = get_random_bytes(16)
    cipher = AES.new(key, AES.MODE_CBC, iv)
    padded = pad(message)
    encrypted = cipher.encrypt(padded.encode('utf-8'))
    return base64.b64encode(iv + encrypted).decode('utf-8')

def decrypt_message(enc_message, password):
    key = get_key_from_password(password)
    raw = base64.b64decode(enc_message)
    iv = raw[:16]
    cipher = AES.new(key, AES.MODE_CBC, iv)
    decrypted = cipher.decrypt(raw[16:])
    return decrypted.decode('utf-8').rstrip(' ')

def encrypt_file(filename, password):
    if not os.path.exists(filename):
        print("File not found.")
        return
    with open(filename, 'r', encoding='utf-8') as f:
        content = f.read()
    encrypted = encrypt_message(content, password)
    out_file = filename.replace('.txt', '_encrypted.txt')
    with open(out_file, 'w', encoding='utf-8') as f:
        f.write(encrypted)
    print(f"Encrypted file saved as {out_file}")

def decrypt_file(filename, password):
    if not os.path.exists(filename):
        print("File not found.")
        return
    with open(filename, 'r', encoding='utf-8') as f:
        content = f.read()
    try:
        decrypted = decrypt_message(content, password)
        out_file = filename.replace('.txt', '_decrypted.txt')
        with open(out_file, 'w', encoding='utf-8') as f:
            f.write(decrypted)
        print(f"Decrypted file saved as {out_file}")
    except Exception:
        print("Decryption failed. Wrong password or corrupted file.")

print("1. Encrypt message")
print("2. Decrypt message")
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print("3. Encrypt file")
print("4. Decrypt file")
choice = input("Choose (1–4): ")

if choice == '1':
    msg = input("Enter message to encrypt: ")
    pwd = input("Enter password: ")
    encrypted = encrypt_message(msg, pwd)
    print("Encrypted message:")
    print(encrypted)
elif choice == '2':
    enc = input("Enter encrypted message: ")
    pwd = input("Enter password: ")
    try:
        decrypted = decrypt_message(enc, pwd)
        print("Decrypted message:")
        print(decrypted)
    except Exception:
        print("Decryption failed. Possible wrong password or corrupted data.")
elif choice == '3':
    file = input("Enter filename to encrypt (e.g. message.txt): ")
    pwd = input("Enter password: ")
    encrypt_file(file, pwd)
elif choice == '4':
    file = input("Enter filename to decrypt (e.g. message_encrypted.txt): ")
    pwd = input("Enter password: ")
    decrypt_file(file, pwd)
else:
    print("Invalid option.")

input("\nPress Enter to exit.")
```