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import tkinter as tk
from tkinter import filedialog
import numpy as np
import os

def import_file(path: str):
    with open(path, 'rb') as file:
        return file.read()

def export_file(path: str, content: bytes):

    # remove extantion
    dot_index = path.rfind('.')
    if dot_index > 0:
        extention: str = path[dot_index:]
        path: str = path[:dot_index]
    else:
        extention: str = ''
    try:
        with open(f'{path}{extention}', "xb") as file:
            file.write(content)
            return print("file saved successfully")
    except:
        # try to save file by changing the name
        for i in range(1, 256):
            try:
                with open(f'{path}({i}){extention}', "xb") as file:
                    file.write(content)
                    return print("file saved successfully")
            except:
                continue
        else:
            print("Couldn't save the file. All alternative names are taken.")

def add_tag(path):
    path = path + '.ecr'
    return path

def remove_tag(path):
    if path.endswith('.ecr'):
        path = path[:-4]
    return path

def get_path():

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root = tk.Tk()
root.withdraw()
file_path = filedialog.askopenfilename()
root.destroy()
return file_path

def split_by_n(seq, n):
    """A generator to divide a sequence into chunks of n units."""
    while seq:
        yield seq[:n]
        seq = seq[n:]

def to_matrix44(file: np.array):
    list = np.reshape(file, 4, 4)
    return list

def expand_key(key: bytes) -> list[bytes]:
    rKey: list[bytes] = []

    return rKey

def generate_key() -> bytes:
    return os.urandom(16)

def round(matrix: bytes, rKey: bytes) -> None:

    # save the list in xfile
    xfile = np.append(xfile, list1)

path: str = get_path()
file: str = import_file(path)
file_list: np.array = list(split_by_n(file, 16))
# import the key here
key_path: str = get_path()
key: str = import_file(key_path)

# genart round key
rkeys = expand_key(key)

# declar the arry where we save the result of encreption or decreption
xfile = bytearray([])

for i in range(len(file_list)):

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list1: list = list(split_by_n(file_list[i], 1))
list1 = np.array(list1)
try:
    matrix = np.reshape(list1, (4, 4))
except:
    matrix = np.array(list1)
# the round should start from here
round(matrix, rkeys[i])
# to her

# the last round here

print(xfile)
```