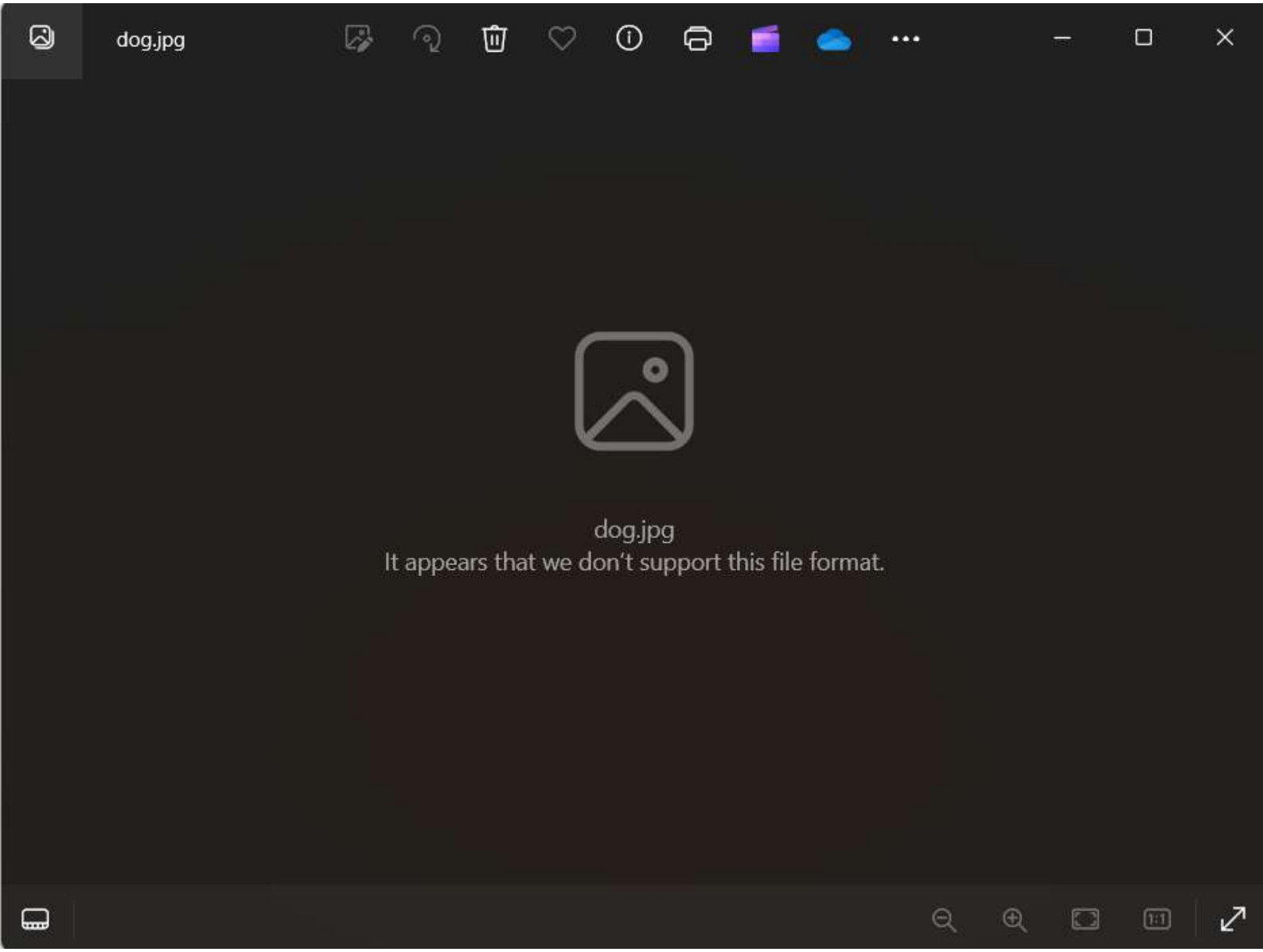
image_encryption.py | image_decryption.py

```python
# try block to handle exception
try:
    # taking path of image as a input
    file1 = input(r'Enter path of Image : ')
    # taking encryption key as input
    key = int(input('Enter Key for encryption of Image : '))

    print('The path of file : ', file1)
    print('Key for encryption : ', key)

    # open file for reading purpose
    fi = open(file1, 'rb')

    # storing image data in variable "image"
    image = fi.read()
    fi.close()

    # converting image into byte array to perform encryption easily on numeric data
    image = bytearray(image)

    # performing XOR operation on each value of bytearray
    for index, values in enumerate(image):
        image[index] = values ^ key

    # opening file for writing purpose
    fi = open(file1, 'wb')
 # writing encrypted data in image
    fi.write(image)
    fi.close()
    print('Encryption Done...')
except Exception:
```


Run
image_encryption
C:\Users\sonia\PycharmProjects\CaesarCipher\venv\Scripts\python.exe C:\Users\sonia\PycharmProjects\image_encryption.py
Enter path of Image : C:\Users\sonia\OneDrive\Pictures\dog.jpg
Enter Key for encryption of Image : 8
The path of file : C:\Users\sonia\OneDrive\Pictures\dog.jpg
Key for encryption : 8
Encryption Done...
Process finished with exit code 0


dog.jpg
dog.jpg
It appears that we don't support this file format.

image_encryption.py | image_decryption.py

```python
try:
    # taking path of image as a input
    file1 = input(r'Enter path of Image : ')
    # taking Decryption key as input
    key = int(input('Enter Key for Decryption of Image : '))

    print('The path of file : ', file1)
    print('Key for Decryption : ', key)

    # open file for reading purpose
    fi = open(file1, 'rb')

    # storing image data in variable "image"
    image = fi.read()
    fi.close()

    # converting image into byte array to perform Decryption easily on numeric data
    image = bytearray(image)

    # performing XOR operation on each value of bytearray
    for index, values in enumerate(image):
        image[index] = values ^ key

    # opening file for writing purpose
    fi = open(file1, 'wb')

    # writing Decrypted data in image
    fi.write(image)
    fi.close()
    print('Decryption Done...')
except Exception:
    print('Error caught : ', Exception.__name__)
```


Run
image_decryption
C:\Users\sonia\PycharmProjects\CaesarCipher\venv\Scripts\python.exe C:\Users\sonia\PycharmProjects\image_decryption.py
Enter path of Image : C:\Users\sonia\OneDrive\Pictures\dog.jpg
Enter Key for Decryption of Image : 8
The path of file : C:\Users\sonia\OneDrive\Pictures\dog.jpg
Key for Decryption : 8
Decryption Done...
Process finished with exit code 0
Users
sonia
PycharmProjects
image_decryption.py

dog.jpg

194%