

Running the Program

- Program is executed in the windows 10 command prompt
- Need Python 3.5 or above and the pycryptodome package
- Make sure the program, key pair, and images are in the same directory. Also navigate the command prompt to this directory
- >python HybridED.py
 - User is prompted to select either encryption or decryption
 - Program assumes user will select the correct options (encryption before decryption, decryption after a single encryption) since this error handling seems to stray away from the main point of the assignment
 - Images aren't provided since submission instructions don't say to include them
 - Pair key provided in submission
 - Can encrypt, quit program, rerun program, and then decrypt if needed

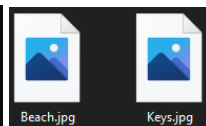
Expected Outcomes

```
D:\Programs\Assignment1>python hybridED.py
Enter '1' to encrypt files
Enter '2' to decrypt files
Enter '3' to quit
...:
```

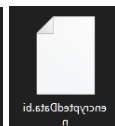


- Program is executed and user is prompted

```
...: 1
Encrypted Beach.jpg
Encrypted Keys.jpg
```



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



- User selects encryption (1) and all .jpg files in the directory are encrypted
- A key encrypted with the RSA 2048 public-key encryption algorithm is passed to the user in a file named "encryptedData.bin"

```
Enter '1' to encrypt files
Enter '2' to decrypt files
Enter '3' to quit
...:
```

- User is prompted again

```
...: 2
Decrypted Beach.jpg
Decrypted Keys.jpg
```



- User selects decryption (2) and all .jpg files in the directory are decrypted

```
Enter '1' to encrypt files
Enter '2' to decrypt files
Enter '3' to quit
...:
```

- User is prompted again

```
...: 3
D:\Programs\Assignment1>
```

- User selects decryption (3) and the program terminates