Python Assignment

Challenging Task-1 Develop Image Cartoonifier with OpenCV in Python

Develop Image Cartoonifier with OpenCV in Python (Input: Your Photo, Output: Cartoon Image of yours)

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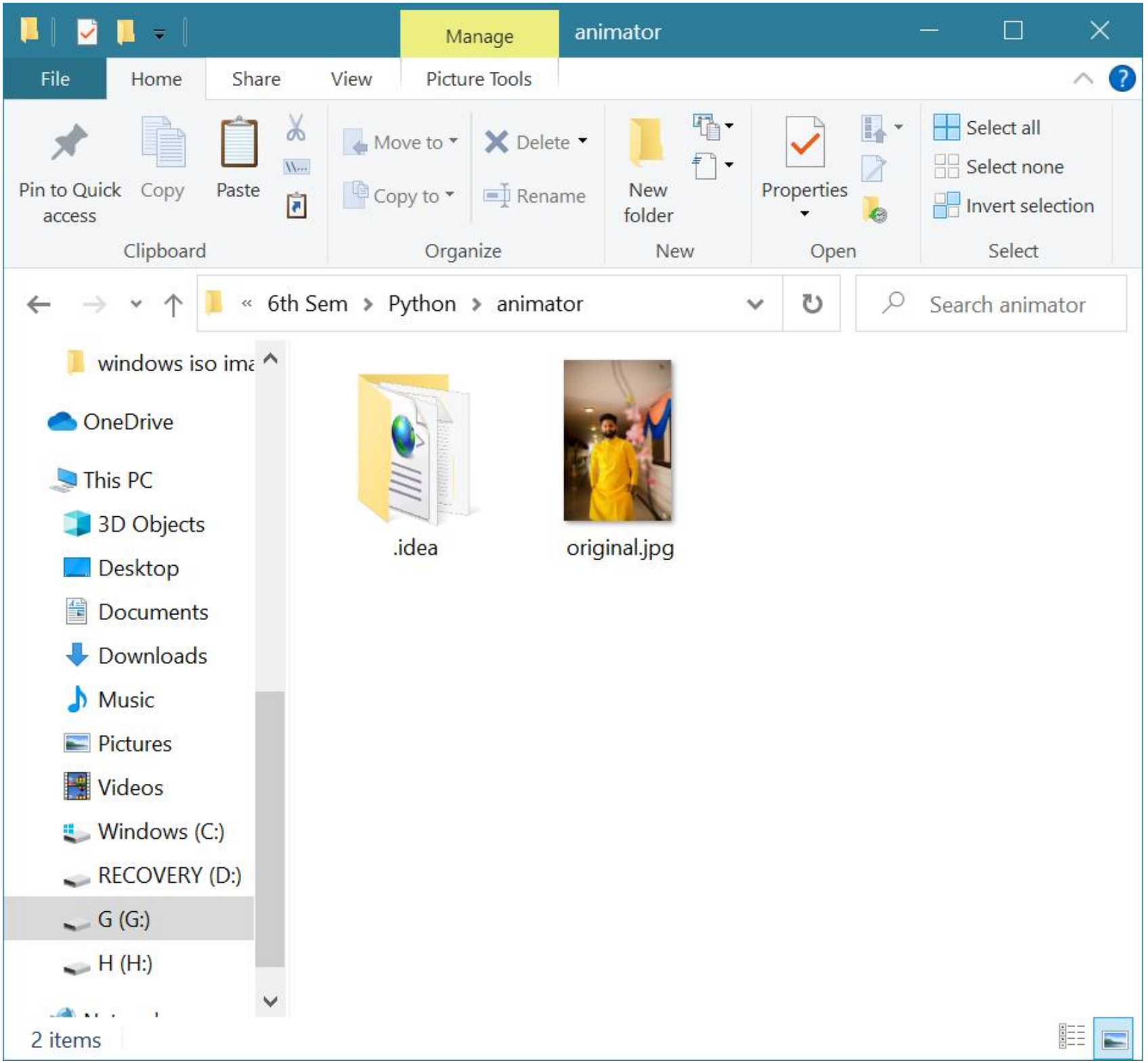
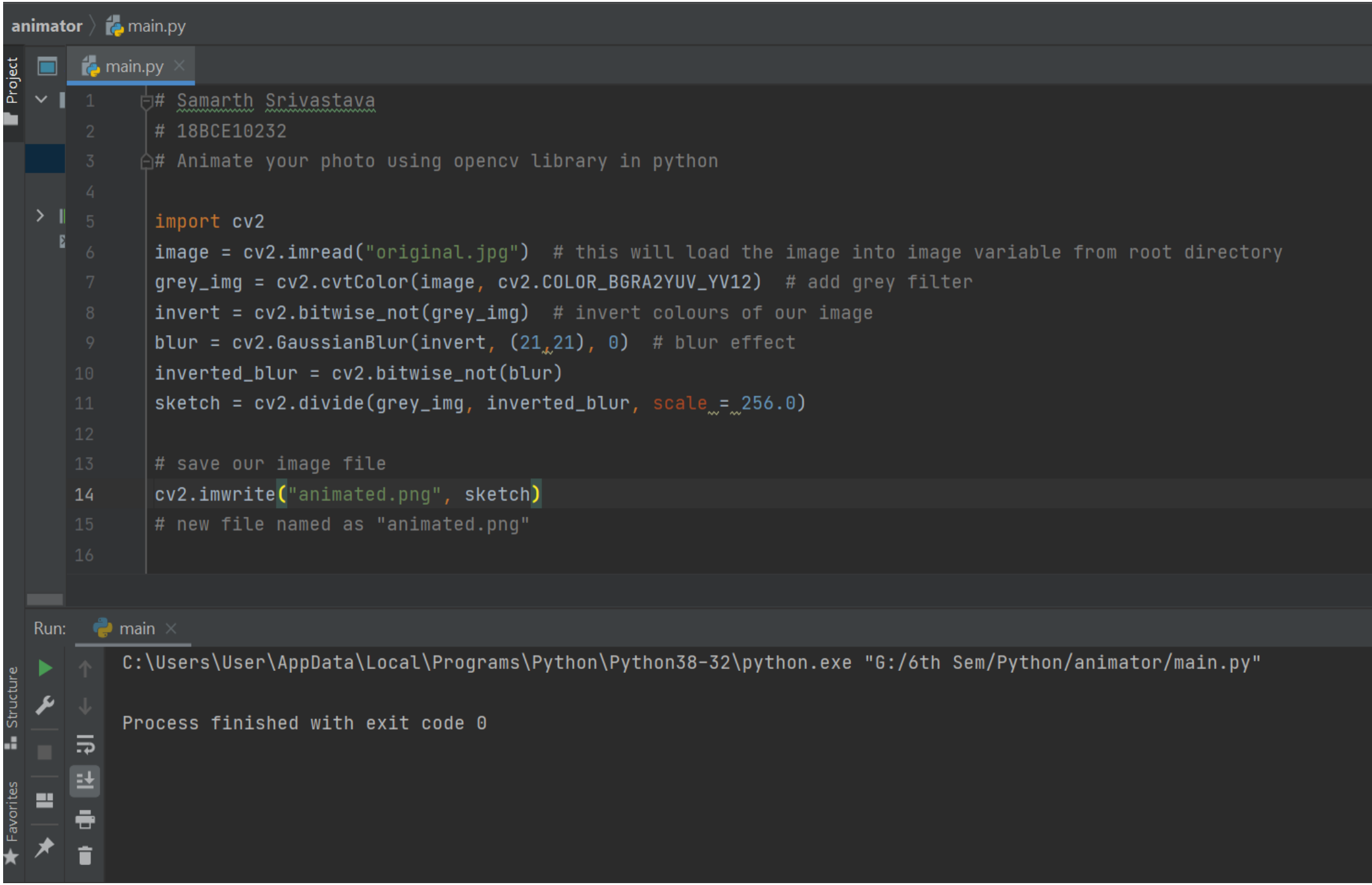
Registration Number: 18 BCE 10232

Slot: E21 + E22

This is my root directory before execution of code. It contains my photo with name ‘original.jpg’ and Pycharm project folder




animator
main.py
main.py
# Samarth Srivastava
# 18BCE10232
# Animate your photo using opencv library in python
import cv2
image = cv2.imread("original.jpg") # this will load the image into image variable from root directory
grey_img = cv2.cvtColor(image, cv2.COLOR_BGRA2YUV_YV12) # add grey filter
invert = cv2.bitwise_not(grey_img) # invert colours of our image
blur = cv2.GaussianBlur(invert, (21,21), 0) # blur effect
inverted_blur = cv2.bitwise_not(blur)
sketch = cv2.divide(grey_img, inverted_blur, scale=256.0)
# save our image file
cv2.imwrite("animated.png", sketch)
# new file named as "animated.png"
Run:
main
C:\Users\User\AppData\Local\Programs\Python\Python38-32\python.exe "G:/6th Sem/Python/animator/main.py"
Process finished with exit code 0
Project
Structure
Favorites

```
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# 18BCE10232
# Animate your photo using opencv library in python


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# new file named as "animated.png"
```
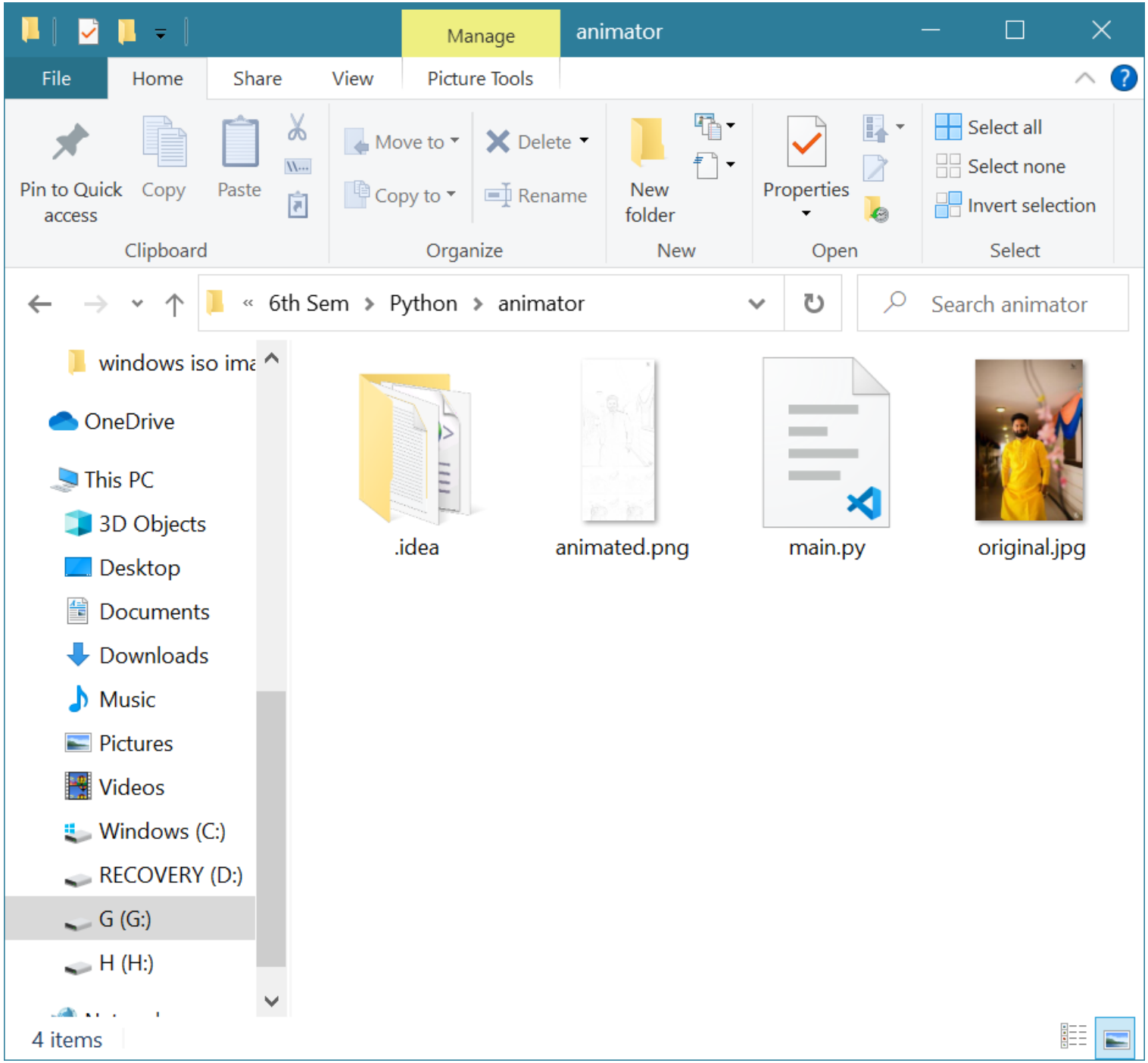

After executing the code, an image was created “animated.png” in the root directory.



Final Output: