

UTTARA UNIVERSITY

LAB REPORT-2

CODE: CSEC_467

SUBMITTED TO

MD. HARUN-AR- RASHID

Senior Lecturer
Uttara University

SUBMITTED BY

ARIF KHAN

ID: 2223081071

Group : 58-B

1) RGB to Gray image converted code

```
from PIL import Image
import matplotlib.pyplot as plt
import numpy as np

img = Image.open('vsort.jpg')

plt.imshow(img, )
plt.title("RGB Image")
plt.axis('off')
plt.show()

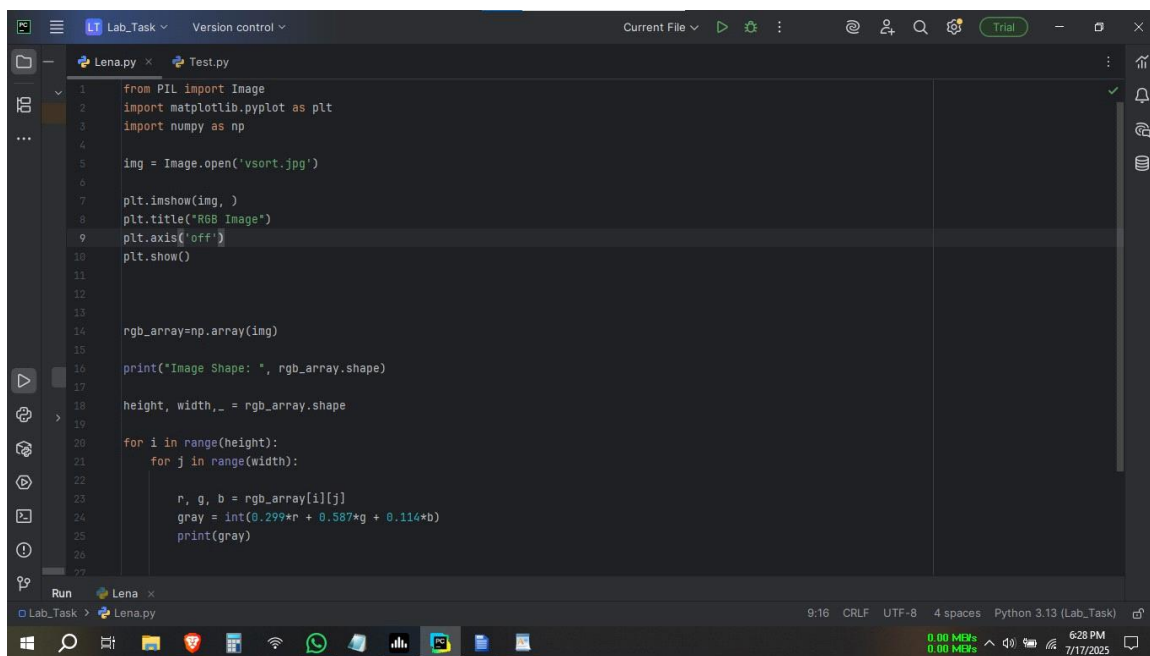
rgb_array=np.array(img)

print("Image Shape: ", rgb_array.shape)

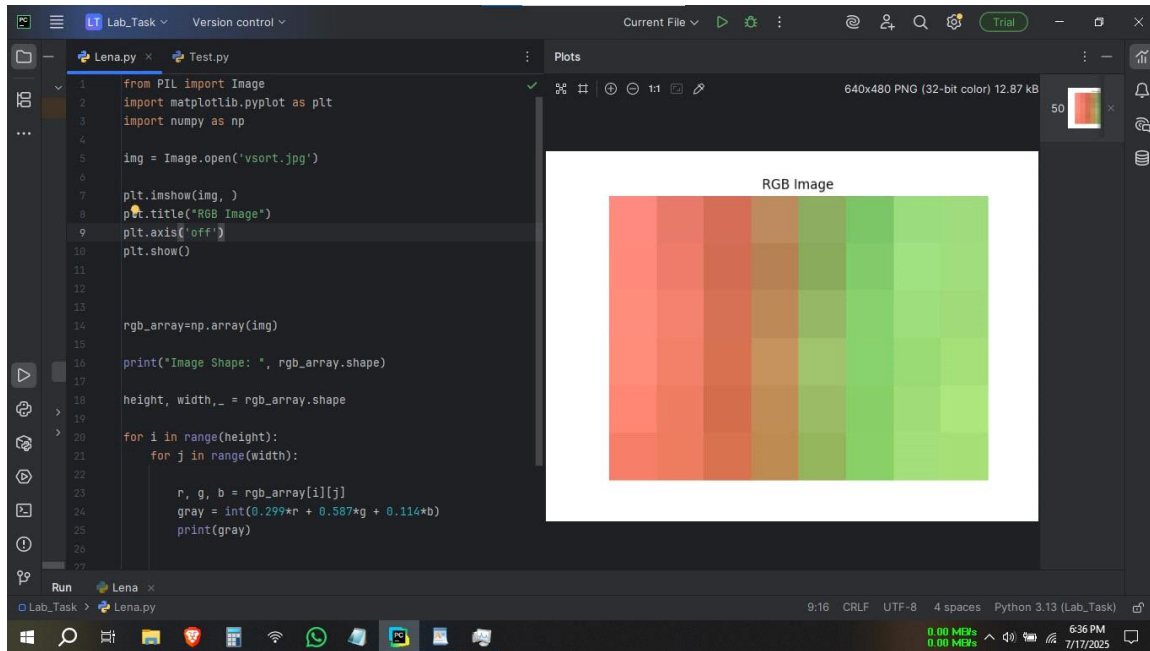
height, width,_ = rgb_array.shape

for i in range(height):
    for j in range(width):

        r, g, b = rgb_array[i][j]
        gray = int(0.299*r + 0.587*g + 0.114*b)
        print(gray)
```



Input RGB Image (6 * 8)



Output RGB to Gray Image matrix

