Computer vision program

```
import cv2
```

```
img = cv2.imread("/content/drive/MyDrive/FIPLab/Dataset/Mona_Lisa1.jpg")
```

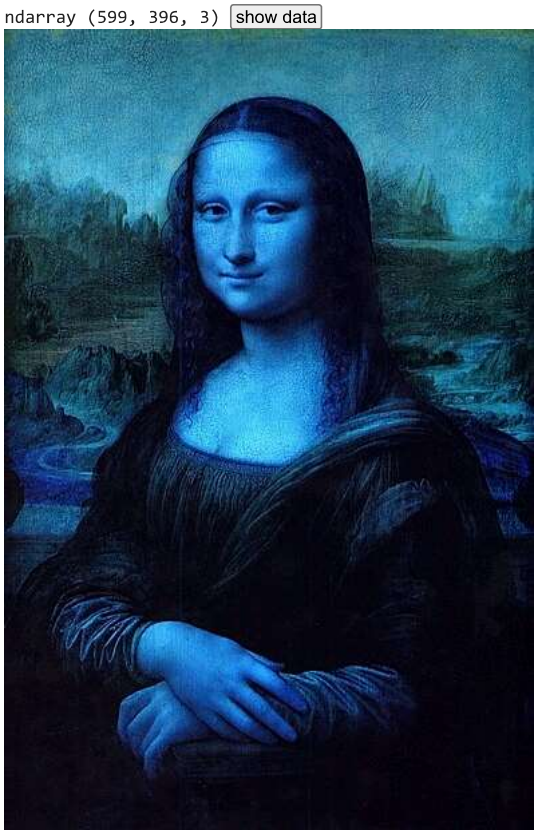
```
import numpy as np
```

```
np.shape(img)
```

```
(599, 396, 3)
```

```
img
```

ndarray (599, 396, 3) show data

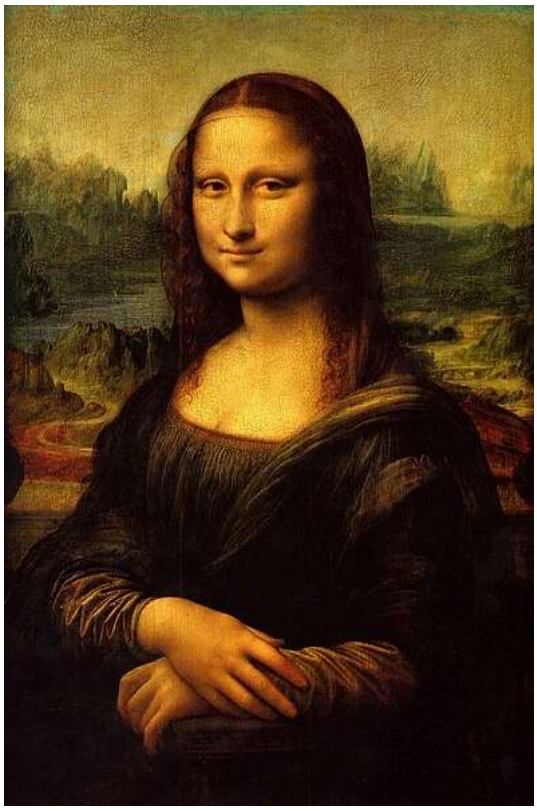


```
print(img)
```

Show hidden output

```
from google.colab.patches import cv2_imshow
```

```
cv2_imshow(img)
```



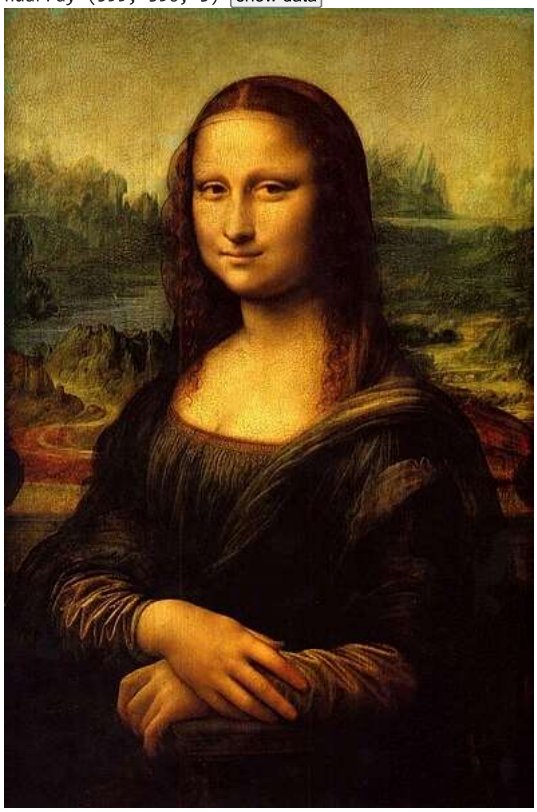
```
cv2.imwrite("/content/drive/MyDrive/FIPLab/Dataset/img11.png",img)
```

```
True
```

```
img1 = cv2.cvtColor(img,cv2.COLOR_BGR2RGB)
```

```
img1
```

```
ndarray (599, 396, 3) show data
```

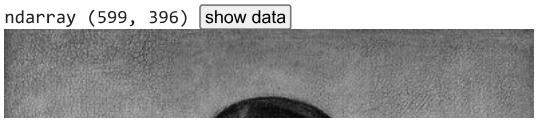


```
import matplotlib.pyplot as plt

plt.subplot(2,2,1)
plt.imshow(img)
plt.axis("off")
plt.subplot(2,2,2)
plt.imshow(img1)
plt.axis("on")
plt.subplot(2,2,3)
plt.imshow(img)
plt.axis("on")
plt.subplot(2,2,4)
plt.imshow(img1)
plt.axis("on")
```

```
(-0.5, 395.5, 598.5, -0.5)
```


```
gray_img = cv2.cvtColor(img1,cv2.COLOR_RGB2GRAY)

gray_img
```

```
ndarray (599, 396) show data
```



```
plt.subplot(1,3,1)
plt.imshow(img)
plt.axis("off")
plt.title("BGR Format Image")
plt.subplot(1,3,2)
plt.imshow(img1)
plt.axis("on")
plt.title("RGB Format Image")
plt.subplot(1,3,3)
plt.imshow(gray_img,'gray')
plt.axis("on")
plt.title("Gray Scale Image")
```

```
Text(0.5, 1.0, 'Gray Scale Image')
```