

```
In [1]: import numpy as np
```

```
In [2]: import matplotlib.pyplot as plt
```

```
In [3]: from PIL import Image # Python Image Library(PIL)
```

```
In [4]: # all the pictures keep inside the box  
%matplotlib inline
```

```
In [5]: img = Image.open(r'C:\Users\world\Desktop\FullStackDSandAI\kids.jpg')
```

```
In [6]: img
```

Out[6]:



```
In [7]: myimg=Image.open(r'D:\brand-factory\public\images\women.jpg')  
myimg
```

Out[7]:

In [8]: `type(img)`Out[8]: `PIL.JpegImagePlugin.JpegImageFile`In [9]: `type(myimg)`Out[9]: `PIL.JpegImagePlugin.JpegImageFile`**np.asarray()---> converts to given input to array**In [10]: `img_arr=np.asarray(img) # converts image to any array  
img_arr`

```
Out[10]: array([[[242, 143, 163],  
                 [242, 143, 163],  
                 [243, 144, 164],  
                 ...,  
                 [232, 134, 157],  
                 [231, 133, 156],  
                 [231, 133, 156]],  
  
                [[241, 142, 162],  
                 [242, 143, 163],  
                 [242, 143, 163],  
                 ...,  
                 [232, 134, 157],  
                 [232, 134, 157],  
                 [232, 134, 157]],  
  
                [[241, 142, 162],  
                 [241, 142, 162],  
                 [242, 143, 163],  
                 ...,  
                 [233, 135, 158],  
                 [232, 134, 157],  
                 [231, 133, 156]],  
  
                ...,  
  
                [[250, 188, 203],  
                 [251, 189, 204],  
                 [250, 188, 203],  
                 ...,  
                 [237, 158, 180],  
                 [237, 158, 180],  
                 [237, 158, 180]],  
  
                [[249, 187, 202],  
                 [250, 188, 203],  
                 [250, 188, 203],  
                 ...,  
                 [237, 158, 180],  
                 [238, 159, 181],  
                 [237, 158, 180]],  
  
                [[250, 188, 203],  
                 [249, 187, 202],  
                 [249, 187, 202],  
                 ...,  
                 [237, 158, 180],  
                 [238, 159, 181],  
                 [237, 158, 180]]], dtype=uint8)
```

```
In [11]: type(img)
```

```
Out[11]: PIL.JpegImagePlugin.JpegImageFile
```

```
In [12]: type(img_arr)
```

```
Out[12]: numpy.ndarray
```

```
In [13]: img_arr.shape
```

```
Out[13]: (5472, 3648, 3)
```

```
In [14]: plt.imshow(img_arr)  
plt.show()
```



```
In [15]: img_arr1=img_arr.copy()
```

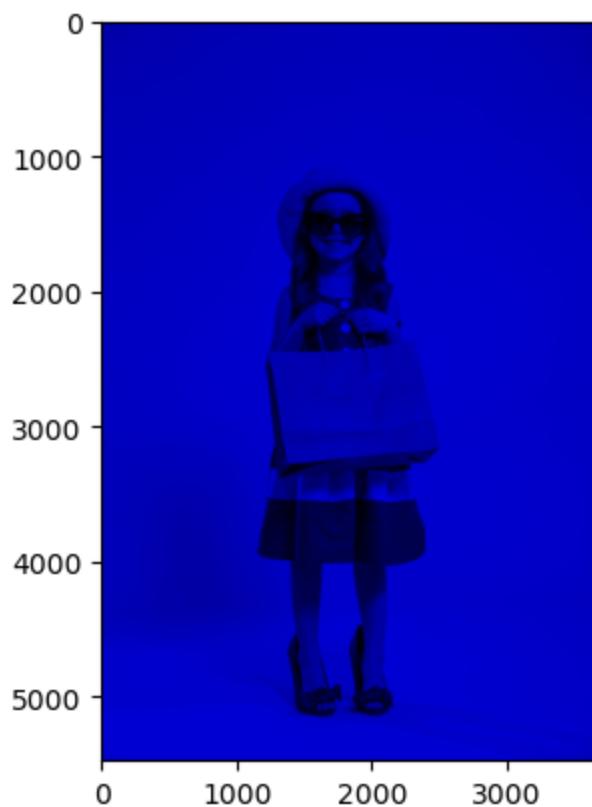
```
In [16]: img_arr1[:, :, 0]=0
```

```
In [17]: plt.imshow(img_arr1)  
plt.show()
```



```
In [18]: img_arr1[:, :, 1]=0
```

```
In [19]: plt.imshow(img_arr1)  
plt.show()
```



In [ ]:

In [ ]: