```
import numpy as np
onesarr=np.ones((5,5),dtype=int)
onesarr
array([[1, 1, 1, 1, 1],
       [1, 1, 1, 1, 1],
       [1, 1, 1, 1, 1],
       [1, 1, 1, 1, 1],
       [1, 1, 1, 1, 1]])
zerosarr=np.zeros((5,3),dtype=int)
zerosarr
array([[0, 0, 0],
       [0, 0, 0],
       [0, 0, 0],
       [0, 0, 0],
       [0, 0, 0]]
onesarr *255
array([[255, 255, 255, 255, 255],
       [255, 255, 255, 255, 255],
       [255, 255, 255, 255, 255],
       [255, 255, 255, 255, 255],
       [255, 255, 255, 255, 255]])
import matplotlib as plt
%matplotlib inline
from PIL import Image
img=Image.open(r'C:\Users\ttwrd\OneDrive\Pictures\akhila.jpg')
type(img)
PIL.JpeqImagePlugin.JpeqImageFile
imgarrr=np.asarray(img)
imgarrr
array([[[13, 26, 34],
        [13, 26, 34],
        [13, 26, 34],
        [17, 8, 13],
```

```
[17, 8, 13],
        [17, 8, 13]],
       [[14, 27, 35],
        [14, 27, 35],
        [14, 27, 35],
              8, 13],
        [17,
        [17, 8, 13],
        [17, 8, 13]],
       [[14, 27, 35],
        [14, 27, 35],
        [14, 27, 35],
        ...,
[17, 8, 13],
        [17,
             8, 13],
        [17, 8, 13]],
       . . . ,
       [[ 8, 11, 18],
        [ 8, 11, 18],
        [8, 11, 18],
        [ 2,
              2,
                  4],
        [ 2,
              2,
                  4],
        [2, 2, 4]],
              5, 12],
       [[ 2,
        [ 2,
              5, 12],
        [ 2,
              5, 12],
        . . . ,
        [ 1,
              1,
                  3],
                  3],
        [ 1,
              1,
        [ 1,
              1, 3]],
       [[4,
              4, 12],
        [ 4,
              4, 12],
        [ 4,
              4, 12],
        [ 1,
              1,
                  3],
        [ 1,
              1, 3],
        [ 1, 1, 3]]], dtype=uint8)
type(imgarrr)
numpy.ndarray
import matplotlib.pyplot as plt
```

```
plt.imshow(imgarrr)
plt.show()
```



```
imgarrr.shape
(170, 297, 3)
img_red=imgarrr.copy()
imgarrr==img_red
array([[[ True,
                  True,
                          True],
         [ True,
                  True,
                          True],
         [ True,
                  True,
                          True],
         [ True,
                  True,
                          True],
         [ True,
                  True,
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          True,
                  True,
                          True]],
        [[ True,
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                  True,
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                  True,
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                          True],
        [[ True,
                  True,
         [ True,
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         [ True,
                  True,
                          True],
```

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[ True,
                   True,
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         [ True,
                   True,
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        . . . ,
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        [[ True,
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         [ True,
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         [ True,
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         [ True,
                   True,
                           True]],
        [[ True,
                   True,
                          True],
         [ True,
                   True,
                          True],
         [ True,
                  True,
                          True],
         . . . ,
         [ True,
                  True,
                           True],
                          True],
         [ True,
                   True,
         [ True,
                  True,
                          True]],
        [[ True,
                   True,
                           True],
         [ True,
                  True,
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         [ True,
                  True,
                          True],
         . . . ,
         [ True,
                   True,
                           True],
         [ True,
                          True],
                   True,
         [ True,
                  True,
                          True]]])
plt.imshow(img red)
<matplotlib.image.AxesImage at 0x25c5612be90>
plt.show()
```

