```
import numpy as np

ones_arr = np.ones((3,3))

ones_arr

ones_arr = np.ones((5,5),dtype=int)

ones_arr

zeros_arr = np.zeros((3,3), dtype = int)

zeros_arr

ones_arr

ones_arr * 255

zeros_arr

ones_arr

import matplotlib.pyplot as plt

%matplotlib inline

from PIL import Image # python imaging library

#horse_img = Image.open('C:\Users\A3MAX SOFTWARE TECH\Desktop\WORK\1.
KODI WORK\1. NARESH\10. WORKSHOP\8. Exploring Generative AI through
computer vision\horse1.jpg')

horse_img = Image.open(r'C:\Users\A3MAX SOFTWARE TECH\Desktop\WORK\1.
KODI WORK\1. NARESH\10. WORKSHOP\7. Exploring Generative AI through
computer vision\horse1.jpg')

horse_img

#my_img = Image.open(r'C:\Users\A3MAX SOFTWARE TECH\Desktop\WORK\1.
KODI WORK\1. NARESH\10. WORKSHOP\8. Exploring Generative AI through
computer vision\myimage.jpg')

#my_img

type(horse_img)

horse_arr = np.asarray(horse_img)
horse_arr

type(horse_arr)

horse_arr.shape

plt.imshow(horse_arr)
```

```
horse_red = horse_arr.copy()
horse_red
horse_arr == horse_red
plt.imshow(horse_red)
horse_red.shape
# R G B
plt.imshow(horse_red[:,:,0])
horse_red[:,:,0]
plt.imshow(horse_red[:,:,0], cmap='Greys')
plt.imshow(horse_red[:,:,1], cmap='grey')
plt.imshow(horse_red[:,:,2], cmap='grey')
horse_red[:,:,0]
horse_red[:,:,1]
horse_red[:,:,2]
horse_red[:,:,1] = 0
horse_red[:,:,1]
plt.imshow(horse_red)
horse_red[:,:,2]
horse_red[:,:,2]  = 0
horse_red[:,:,2]
plt.imshow(horse_red)
horse_arr
horse_red
horse_img
arr1 = np.asarray(horse_img)
type(arr1)
arr1.shape
plt.imshow(arr1)
```

```
horse_img1 = arr1.copy()
horse_img1[:,:,0] = 0
plt.imshow(horse_img1)
horse_img1[:,:,1]
horse_img1[:,:,1] = 0
plt.imshow(horse_img1)
```

practicle 1 is completed

```
```