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Btech Extc-3rd Year Semester 6

Roll No:C017

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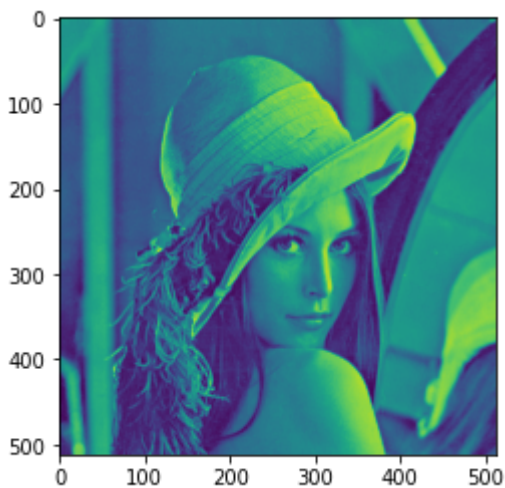
Experiment Number:0

Aim: To study basic PYTHON commands used in image processing to read, write and show image

Software: PYTHON.

```
#Read,write and show images using Python cv2 and matplotlib
import cv2
import matplotlib.pyplot as plt
img1= cv2.imread("/content/lena_color_512.tif",0)
plt.imshow(img1)
```

<matplotlib.image.AxesImage at 0x7fdbcd15a320>



```
type(img1) #To ascertain type of data
```

numpy.ndarray

```
img1.shape #it reurns a tuple of the number of rows,columns and channels(if the image is clear)
```

(512, 512)

```
img1.ndim #it returns the dimension of the array
```

2

```
img1.size #it returns thenumber of elemts pixels of the image
```

262144

#Conclusion:

In this lab we learnt to use open cv library

How to open images(in colour/greyscale) and how to save the image.

We also found the some parameters of the numpy array representing the image

In dimensions,size and number of pixels.