

```
In [18]: import numpy as np
```

```
In [19]: import matplotlib.pyplot as plt # visualisation lib
```

```
In [20]: from PIL import Image
```

```
In [21]: feature_image = Image.open(r'/Users/sasidharbhagavatula/desktop/Biomedial_
feature_image
```

Out[21]:



```
In [22]: print(type(feature_image))
<class 'PIL.PngImagePlugin.PngImageFile'>
```

```
In [23]: print(type(Image))
<class 'module'>
```

```
In [24]: fea_arr = np.asarray(feature_image)
fea_arr
```

```
Out[24]: array([[0, 0, 0, 0],
               [0, 0, 0, 0],
               [0, 0, 0, 0],
               ...,
               [0, 0, 0, 0],
               [0, 0, 0, 0],
               [0, 0, 0, 0]],

            [[0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             ...,
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0]],

            [[0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             ...,
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0]],

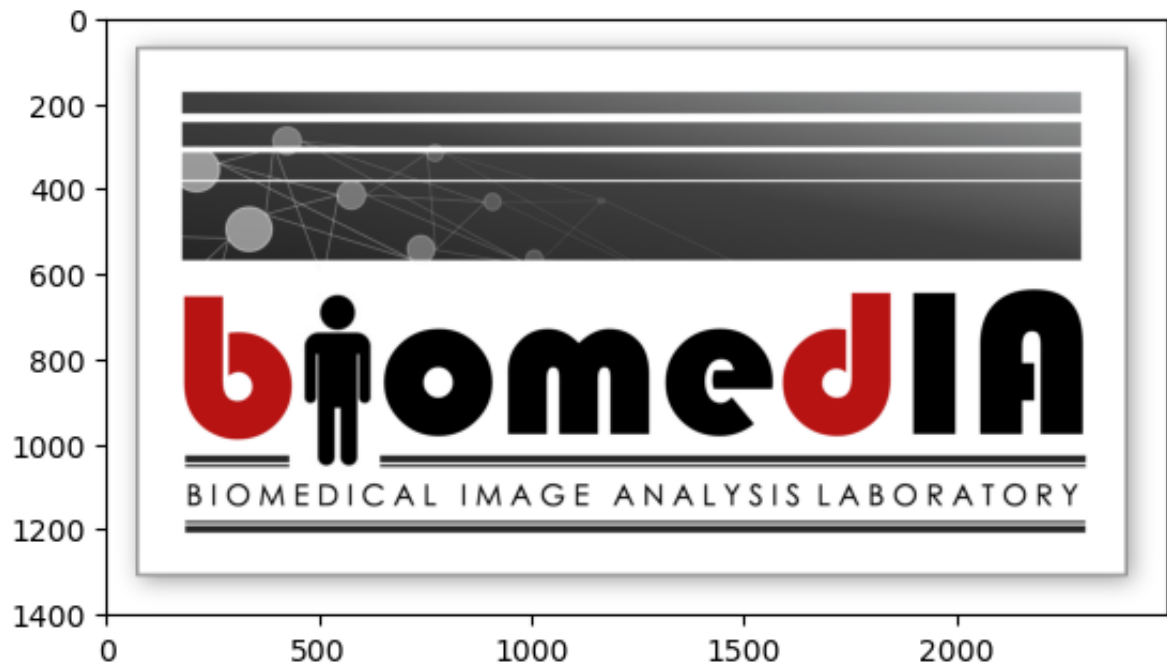
            ...,

            [[0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             ...,
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0]],

            [[0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             ...,
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0]],

            [[0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             ...,
             [0, 0, 0, 0],
             [0, 0, 0, 0],
             [0, 0, 0, 0]]], dtype=uint8)
```

```
In [25]: plt.imshow(fea_arr)
plt.show()
```



```
In [26]: fea_arr.shape
```

```
Out[26]: (1402, 2497, 4)
```

```
In [28]: #-----my paint
```

```
In [29]: my_paint=Image.open(r'/Users/sasidharbhagavatula/desktop/paint1.JPG')  
my_paint
```

```
Out[29]:
```



```
In [30]: print(type(my_paint))
```

```
<class 'PIL.JpegImagePlugin.JpegImageFile'>
```

```
In [31]: paint1_arr=np.asarray(my_paint)
        paint1_arr
```

```
Out[31]: array([[ 38,  33,  29],
                [ 93,  88,  84],
                [100,  95,  89],
                ...,
                [149, 134, 115],
                [153, 138, 119],
                [183, 168, 149]],

                [[ 70,  65,  61],
                [ 97,  92,  88],
                [ 42,  37,  31],
                ...,
                [148, 133, 114],
                [162, 147, 128],
                [158, 143, 124]],

                [[ 93,  88,  84],
                [ 47,  42,  38],
                [ 38,  33,  27],
                ...,
                [161, 146, 127],
                [180, 165, 146],
                [139, 124, 105]],

                ...,

                [[184, 180, 171],
                [162, 158, 149],
                [179, 175, 166],
                ...,
                [179, 171, 158],
                [204, 196, 183],
                [206, 198, 185]],

                [[196, 192, 183],
                [183, 179, 170],
                [130, 126, 117],
                ...,
                [188, 180, 169],
                [206, 198, 185],
                [206, 198, 185]],

                [[196, 192, 183],
                [186, 182, 173],
                [144, 140, 131],
                ...,
                [201, 193, 182],
                [201, 193, 180],
                [212, 204, 191]]], dtype=uint8)
```

```
In [32]: plt.imshow(paint1_arr)  
plt.show()
```



```
In [33]: paint1_arr.shape
```

```
Out[33]: (319, 399, 3)
```

```
In [ ]:
```