#Convert Image to Array

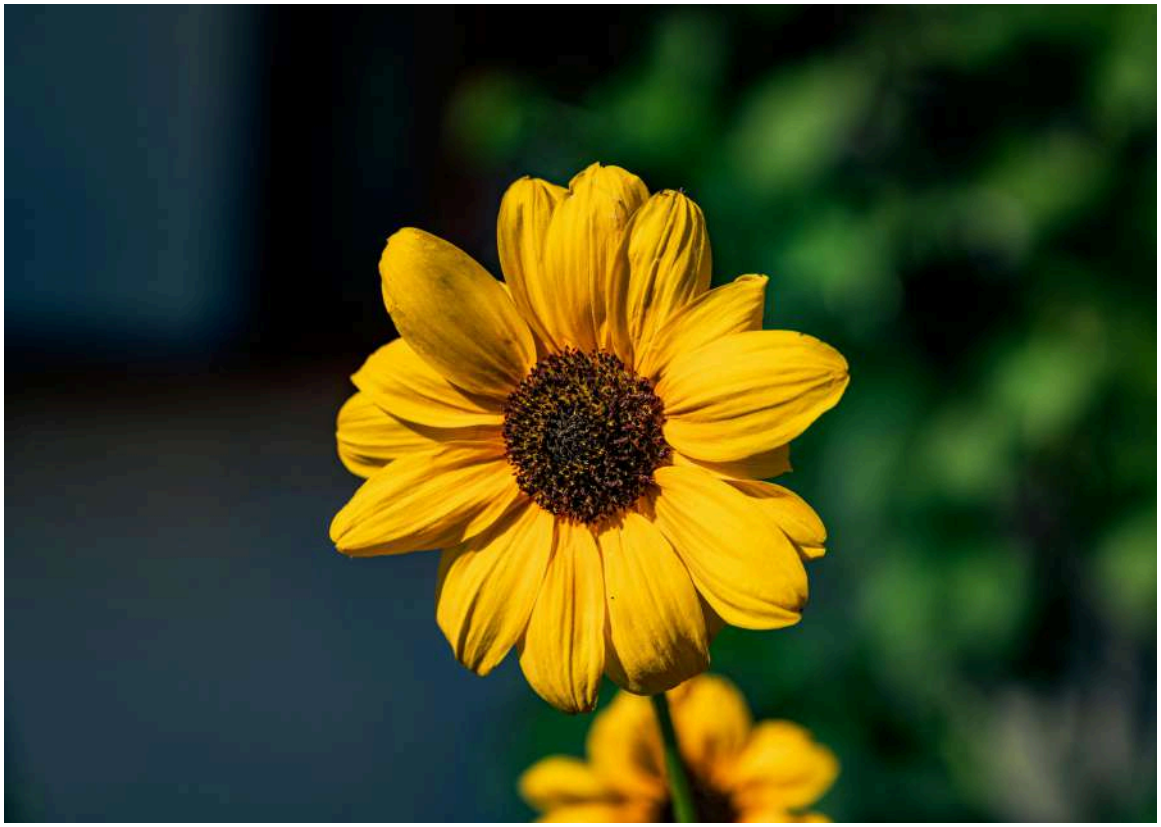
In [3]:
```
import numpy as np  #array
```

In [4]:
```
import matplotlib.pyplot as plt  #visualization
```

In [5]:
```
from PIL import Image   #python image library
```

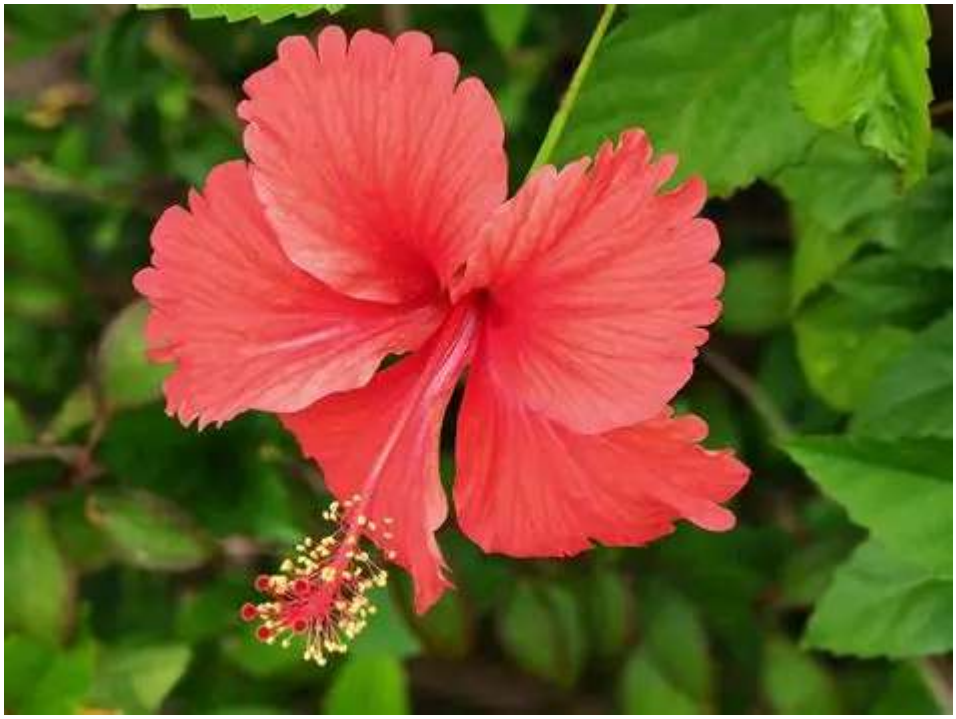
In [6]:
```
Flower_image = Image.open(r'C:\Users\ankus\Downloads\Flower.jpg')
Flower_image
```

Out[6]:



In [7]:
```
Hibiscus_image = Image.open(r'C:\Users\ankus\Downloads\Hibiscus.webp')
Hibiscus_image
```

Out[7]:



In [8]:
```
print(type(Flower_image))
print(type(Hibiscus_image))
```

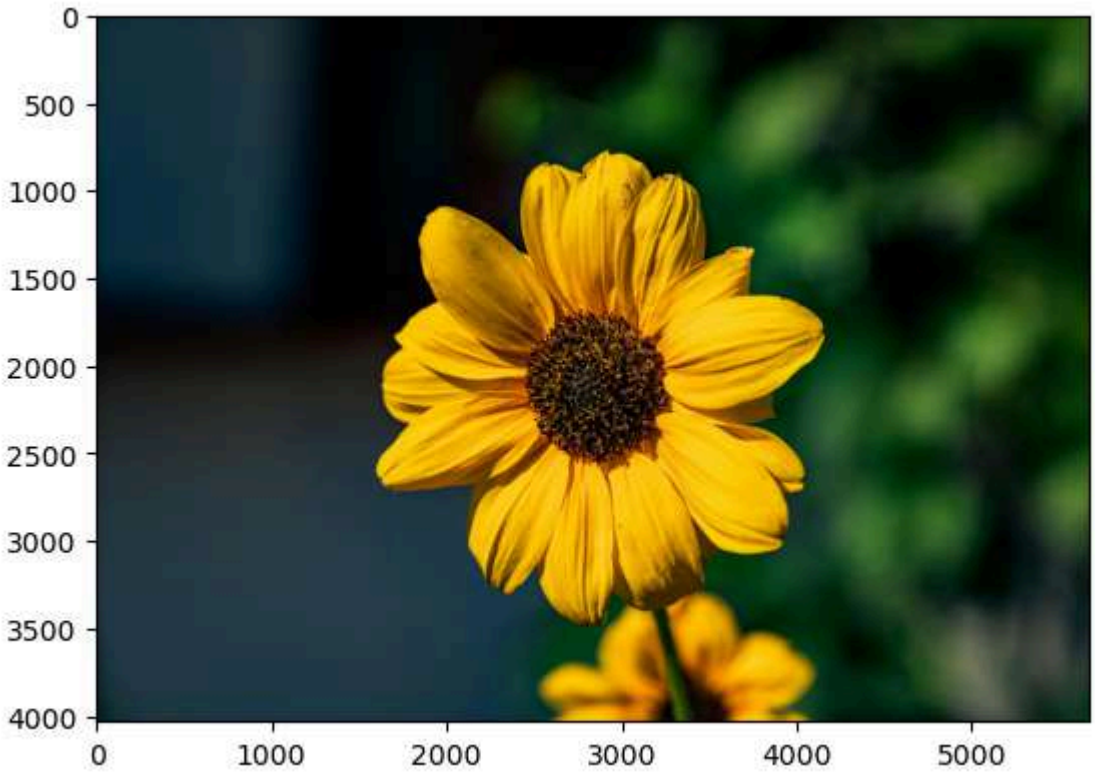
```
<class 'PIL.JpegImagePlugin.JpegImageFile'>
<class 'PIL.WebPImagePlugin.WebPImageFile'>
```

In [9]:
```
Flo_arr = np.asarray(Flower_image)
Flo_arr
```

Out[9]:
```
array([[[16, 45, 59],
        [20, 49, 63],
        [22, 51, 65],
        ...,
        [39, 86, 18],
        [40, 87, 19],
        [40, 87, 19]],

       [[14, 43, 57],
        [17, 46, 60],
        [20, 49, 63],
        ...,
        [39, 86, 18],
        [41, 88, 20],
        [41, 88, 20]],

       [[11, 40, 54],
        [14, 43, 57],
        [17, 46, 60],
        ...,
        [38, 85, 17],
        [46, 93, 25],
        [46, 93, 25]],

       ...,

       [[ 0, 30, 32],
        [ 0, 29, 31],
        [ 0, 29, 31],
        ...,
        [ 7, 57, 22],
        [ 4, 54, 19],
        [ 6, 56, 21]],

       [[ 2, 33, 35],
        [ 1, 32, 34],
        [ 0, 31, 33],
        ...,
        [ 6, 56, 21],
        [10, 60, 25],
        [12, 62, 27]],

       [[ 5, 36, 38],
        [ 4, 35, 37],
        [ 2, 33, 35],
        ...,
        [ 4, 54, 19],
        [13, 63, 28],
        [15, 65, 30]]], dtype=uint8)
```

In [10]:
```
plt.imshow(Flo_arr)
plt.show
```

Out[10]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [11]:
```
Flo_arr.shape
```

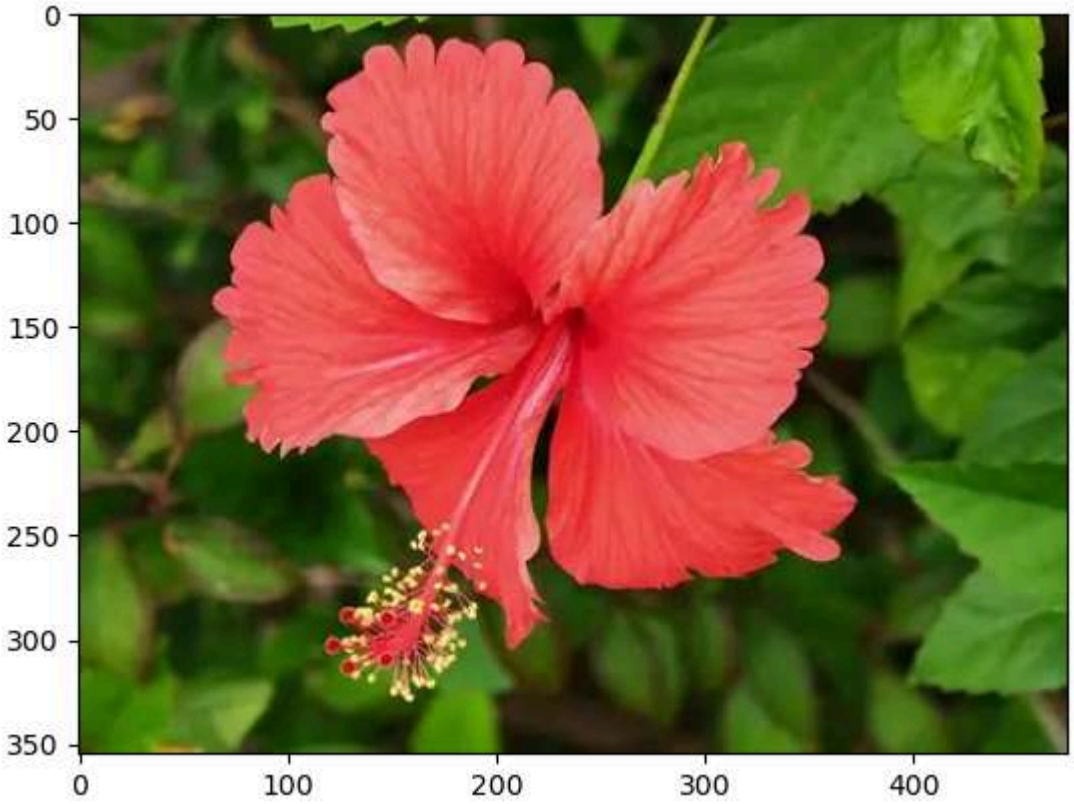
Out[11]:
```
(4032, 5674, 3)
```

In [12]:
```
Hib_arr = np.asarray(Hibiscus_image)
Hib_arr
```

Out[12]:
```
array([[[ 43,  73,  13],
        [ 43,  73,  13],
        [ 45,  75,  15],
        ...,
        [ 42,  33,  16],
        [ 43,  34,  17],
        [ 43,  34,  17]],

       [[ 39,  70,   9],
        [ 39,  70,   9],
        [ 42,  72,  12],
        ...,
        [ 42,  33,  16],
        [ 43,  34,  17],
        [ 43,  34,  17]],

       [[ 35,  65,   5],
        [ 35,  65,   5],
        [ 37,  67,   7],
        ...,
        [ 42,  33,  16],
        [ 43,  34,  17],
        [ 43,  34,  17]],

       ...,

       [[ 77,  79,  15],
        [ 69,  73,   6],
        [ 67,  76,   5],
        ...,
        [121, 130,  86],
        [125, 129,  89],
        [127, 128,  89]],

       [[ 87,  81,  19],
        [ 72,  69,   6],
        [ 69,  71,   4],
        ...,
        [122, 131,  87],
        [127, 132,  91],
        [129, 131,  91]],

       [[ 97,  84,  27],
        [ 78,  68,   8],
        [ 71,  68,   3],
        ...,
        [121, 133,  88],
        [129, 136,  95],
        [132, 136,  96]]], dtype=uint8)
```

In [13]:
```
plt.imshow(Hib_arr)
plt.show
```

Out[13]:
```
<function matplotlib.pyplot.show(close=None, block=None)>
```



In [14]:
```
Hib_arr.shape
```

Out[14]:
```
(355, 474, 3)
```

In [ ]:
```

```