In [6]:
```python
import numpy as np
import matplotlib.pyplot as plt
from PIL import Image
import glob
import os
```

In [7]:
```python
help (os)
```
```
   |    path
   |        the entry's full path name; equivalent to os.path.join(scandir_pa
th, entry.name)

         error = class OSError(Exception)
   |     Base class for I/O related errors.
   |
   |     Method resolution order:
   |         OSError
   |         Exception
   |         BaseException
   |         object
   |
   |     Methods defined here:
   |
   |     __init__(self, /, *args, **kwargs)
   |         Initialize self.  See help(type(self)) for accurate signature.
   |
   |     __reduce__(...)
   |         Helper for pickle
```

In [8]:
```python
os.getcwd()
```

Out[8]: 'C:\\Users\\BrighterDays CodeLab'

In [10]:
```python
path = "\\Users\\BrighterDays CodeLab\\Pictures\\Saved Pictures"
```

In [11]:
```python
os.chdir(path)
```

In [13]:
```python
os.getcwd()
```

Out[13]: 'C:\\Users\\BrighterDays CodeLab\\Pictures\\Saved Pictures'

In [ ]:

In [14]:
```python
os.mkdir("images")
```

In [16]:
```python
os.listdir()
```

Out[16]: ['desktop.ini', 'images']

In [17]:
```python
img_org = []
img_crop =[]
```

```
In [20]: for files in glob.glob(path):
             img = Image.open(files)
             pic_org.append(img)
```

```
---------------------------------------------------------------------------
PermissionError                           Traceback (most recent call last)
<ipython-input-20-60a119c63975> in <module>
      1 for files in glob.glob(path):
----> 2     img = Image.open(files)
      3     pic_org.append(img)

~\Anaconda3\lib\site-packages\PIL\Image.py in open(fp, mode)
   2807
   2808     if filename:
-> 2809         fp = builtins.open(filename, "rb")
   2810         exclusive_fp = True
   2811

PermissionError: [Errno 13] Permission denied: '\\Users\\BrighterDays CodeLab
\\Pictures\\Saved Pictures'
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [ ]:
```

```
In [24]: import pandas as pd
```

```
In [32]: df = pd.DataFrame(data = np.random.randn(1000), index = pd.date_range('22-06-2020
         tf = pd.Series(data = np.random.randn(1000), index = pd.date_range('22-06-2020',
         tf
```

```
Out[32]: 2020-06-22    -0.352844
         2020-06-23     2.266157
         2020-06-24    -1.264132
         2020-06-25    -0.030768
         2020-06-26    -0.938566
                          ...
         2023-03-14    -0.932408
         2023-03-15    -0.179251
         2023-03-16     0.183338
         2023-03-17    -1.306270
         2023-03-18     0.361991
         Freq: D, Length: 1000, dtype: float64
```

In [33]: df

Out[33]:

	0
2020-06-22	-1.585947
2020-06-23	0.127128
2020-06-24	1.457382
2020-06-25	0.317440
2020-06-26	-0.360870
...	...
2023-03-14	1.062124
2023-03-15	-0.193105
2023-03-16	-0.664454
2023-03-17	-0.122235
2023-03-18	-1.095638

1000 rows × 1 columns