Veri Gorsellestirme Temel Bilgiler

In [ ]:

```
import matplotlib.pyplot as plt
import numpy as np
```

In [ ]:

```
%matplotlib inline
```

Data Olusturalım

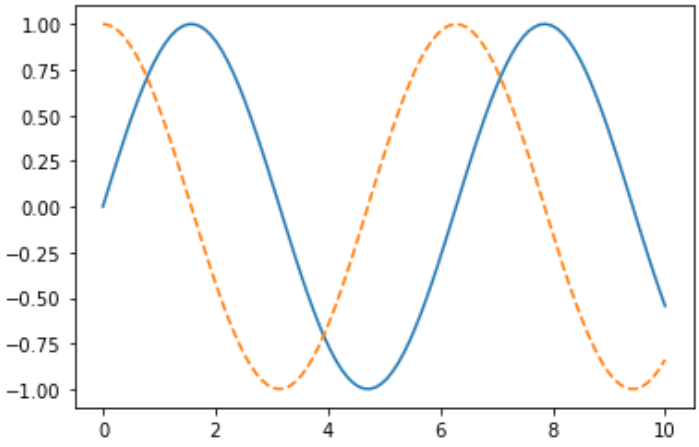
In [ ]:

```
x = np.linspace(0, 10, 100)
```

Ilk Grafik

In [ ]:

```
fig = plt.figure()

plt.plot(x, np.sin(x), '-')
plt.plot(x, np.cos(x), '--');
```



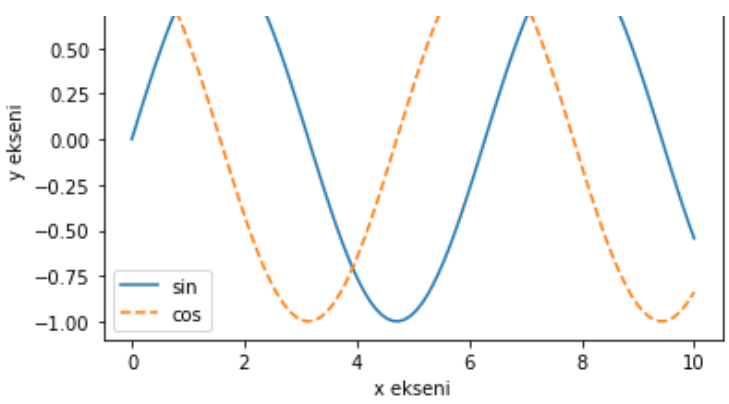
Eksenler ve Lejant

In [ ]:

```
fig = plt.figure()

plt.plot(x, np.sin(x), '-')
plt.plot(x, np.cos(x), '--');

plt.xlabel('x ekseni')
plt.ylabel('y ekseni')

plt.legend(('sin', 'cos'))
```

Out[ ]:

```
<matplotlib.legend.Legend at 0x7f0333944910>
```



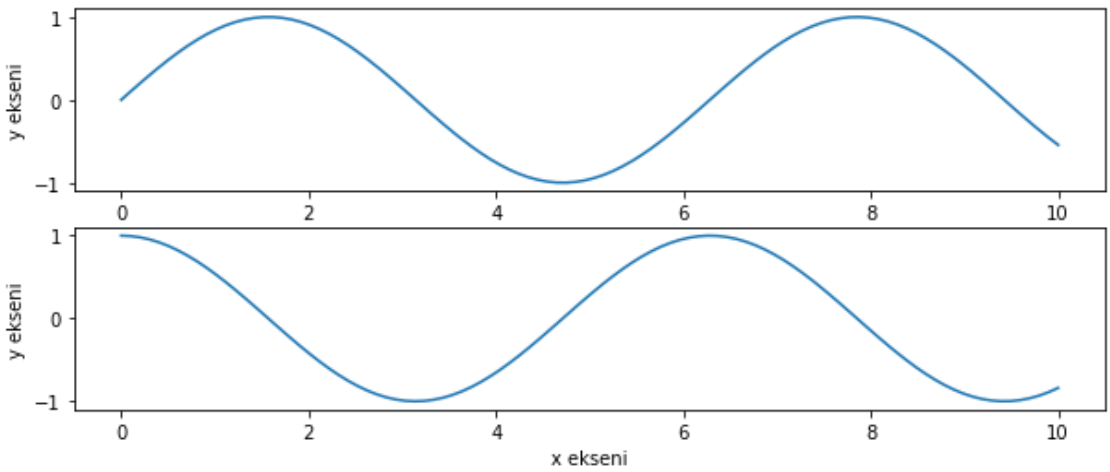
Subplotlar

In [ ]:

```
fig2 = plt.figure(figsize=(10, 4))   # create a plot figure

# create the first of two panels and set current axis
plt.subplot(2, 1, 1) # (rows, columns, panel number)
plt.xlabel('x ekseni')
plt.plot(x, np.sin(x))
plt.ylabel('y ekseni')


# create the second panel and set current axis
plt.subplot(2, 1, 2)
plt.plot(x, np.cos(x));
plt.xlabel('x ekseni')
plt.ylabel('y ekseni')
```

Out[ ]:

```
Text(0, 0.5, 'y ekseni')
```



Tasarımsal Değişiklikler

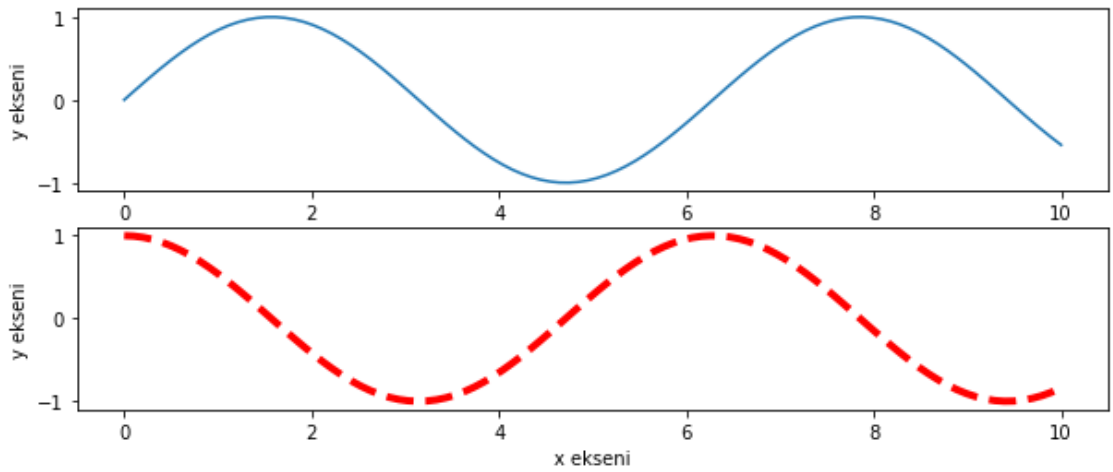
In [ ]:

```
fig2 = plt.figure(figsize=(10, 4))   # create a plot figure

# create the first of two panels and set current axis
plt.subplot(2, 1, 1) # (rows, columns, panel number)
plt.xlabel('x ekseni')
plt.plot(x, np.sin(x))
plt.ylabel('y ekseni')


# create the second panel and set current axis
plt.subplot(2, 1, 2)
```

```
plt.plot(x, np.cos(x), color='red', linestyle='dashed', linewidth=4);
plt.xlabel('x ekseni')
plt.ylabel('y ekseni')
```

Out[ ]:

```
Text(0, 0.5, 'y ekseni')
```



Gorsellerin Kaydedilmesi

In [ ]:

```
fig.savefig('ilk_gorsel.png')
```

Line Plot

In [9]:

```
import matplotlib.pyplot as plt
import numpy as np
import seaborn as sns
import pandas as pd
```

In [10]:

```
%matplotlib inline
sns.set()
```

To show the line plots, let's first import the famous iris data set.

In [12]:

```
iris = sns.load_dataset('iris')
iris.head()
```

Out[12]:

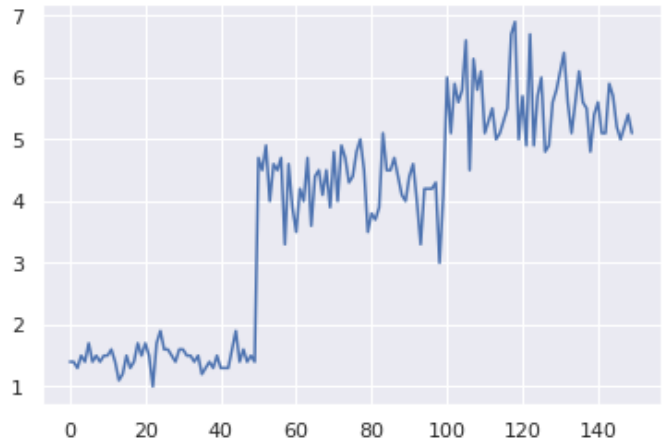
	sepal_length	sepal_width	petal_length	petal_width	species
0	5.1	3.5	1.4	0.2	setosa
1	4.9	3.0	1.4	0.2	setosa
2	4.7	3.2	1.3	0.2	setosa
3	4.6	3.1	1.5	0.2	setosa
4	5.0	3.6	1.4	0.2	setosa

In [13]:

```
iris['petal_length'].plot()
```

Out[13]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0320d42810>
```

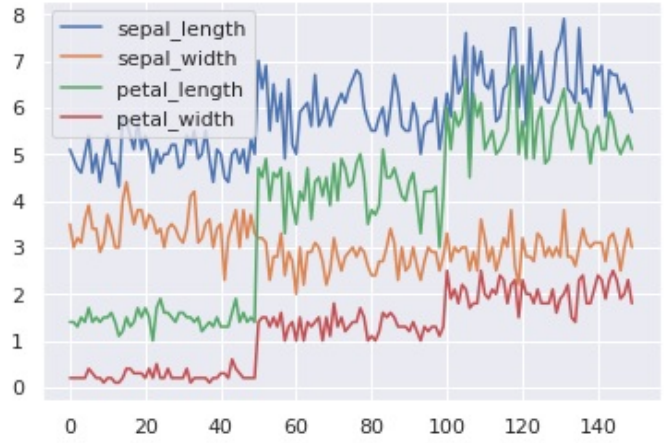


In [14]:

```
iris.plot()
```

Out[14]:

```
<matplotlib.axes._subplots.AxesSubplot at 0x7f0320bf6dd0>
```



In [ ]:

```

```