Different was of creating a dataframe : 1. Using CSV 2. Using Excel 3. From Python Dictionary 4. From list of Tuples 5. From list of dictionaries

In [1]:

```
# using CSV
import pandas as pd
df = pd.read_csv("weather_data.csv")
df.head()
```

Out[1]:

	day	temperature	windspeed	event
0	1/1/2017	32	6	Rain
1	1/2/2017	35	7	Sunny
2	1/3/2017	28	2	Snow
3	1/4/2017	24	7	Snow
4	1/5/2017	32	4	Rain

In [6]:

```
# Using Excel

df1 = pd.read_excel("weather_data.xlsx","Sheet1")
df1
```

Out[6]:

	day	temperature	windspeed	event
0	2017-01-01	32	6	Rain
1	2017-01-02	35	7	Sunny
2	2017-01-03	28	2	Snow

In [11]:

```
# From Python Dictionaries

weather_data = {
    'day' : ['1/1/2017','1/2/2017','1/3/2017','1/4/2017'],
    'temperature' :[32,35,28,31],
    'windspeed' : [6,7,2,7],
    'event' :['Rain','Sunny','Snow','Rain']
}

df = pd.DataFrame(weather_data)
df.head()
```

Out[11]:

	day	temperature	windspeed	event
0	1/1/2017	32	6	Rain
1	1/2/2017	35	7	Sunny
2	1/3/2017	28	2	Snow
3	1/4/2017	31	7	Rain

In [12]:

```
# Using Tuple lists
weather_data = [
    ('1/1/2017',32,6,'Rain'),
    ('1/2/2017',35,7,'Sunny'),
    ('1/3/2017',28,2,'Snow')
]
df = pd.DataFrame(data = weather_data, columns=['day','temperature','windspeed','event'
df
```

Out[12]:

	day	temperature	windspeed	event
0	1/1/2017	32	6	Rain
1	1/2/2017	35	7	Sunny
2	1/3/2017	28	2	Snow

In [13]:

```
# From list of dictionaries

weather_data = [
    {'day': '1/1/2017', 'temperature': 32, 'windspeed': 6, 'event': 'Rain'},
    {'day': '1/2/2017', 'temperature': 35, 'windspeed': 7, 'event': 'Sunny'},
    {'day': '1/3/2017', 'temperature': 28, 'windspeed': 2, 'event': 'Snow'},

]
df = pd.DataFrame(data = weather_data, columns=['day','temperature','windspeed','event'
df
```

Out[13]:

	day	temperature	windspeed	event
0	1/1/2017	32	6	Rain
1	1/2/2017	35	7	Sunny
2	1/3/2017	28	2	Snow