In [1]:	<pre>import numpy as np import numpy as np</pre>
In [3]:	<pre>import pandas as pd  df = pd.read_csv('D:\\24 - Machine_Learning\\download files\\df1.csv')</pre>
	df # in this method we define the path where we have our file
Out[3]:	A         B         C         D           O         A0         B0         C0         D0
	1 A1 B1 C1 D1 2 A2 B2 C2 D2
	<b>3</b> A3 B3 C3 D3
In [4]:	<pre>df = pd.read_csv('df1.csv') df # in this method we go to home page of jupyter and we upload our file</pre>
Out[4]:	# so that we dont require to mention the path  A B C D
	<ul><li>0 A0 B0 C0 D0</li><li>1 A1 B1 C1 D1</li></ul>
	2 A2 B2 C2 D2 3 A3 B3 C3 D3
In [5]:	<pre>df.to_csv("D:\\24 - Machine_Learning\\df1.csv", index=False)</pre>
	<pre># to save the file in our system # EXCEL INPUT</pre>
	<pre>df = pd.read_excel('D:\\24 - Machine_Learning\\download files\\Excel_Sample.xlsx', sheet_name = 'Sheet1') df # Reading the excel(.xlsx) file</pre>
Out[10]:	Unnamed: 0.1 Unnamed: 0 a b c d  0 0 0 1 2 3
	<b>1</b> 1 1 4 5 6 7
	2 2 8 9 10 11 3 3 12 13 14 15
In [12]:	<pre>df.drop('Unnamed: 0', axis=1, inplace=True) df</pre>
Out[12]:	# to remove any column from the table  Unnamed: 0.1 a b c d
	<ul> <li>0 0 1 2 3</li> <li>1 4 5 6 7</li> </ul>
	2
In [13]:	# EXCEL OUPUT
In [14]:	<pre>df.to_excel('Excel_Sample.xlsx', sheet_name = 'Sheet1')  # JOINING &amp; CONCATENATING  df1 = pd_road_ggy('D:\) 24 = Machine Learning\\devnload_files\\df1 ggy!\)</pre>
Ou+ [4 4]	<pre>df1 = pd.read_csv('D:\\24 - Machine_Learning\\download files\\df1.csv') df1</pre> A B C D
Out[14]:	<b>0</b> A0 B0 C0 D0
	1 A1 B1 C1 D1 2 A2 B2 C2 D2
T [45]	3 A3 B3 C3 D3
Out[15]:	<pre>df2 = pd.read_csv('D:\\24 - Machine_Learning\\download files\\df2.csv') df2</pre> A B C D
	<ul> <li>0 A4 B4 C4 D4</li> <li>1 A5 B5 C5 D5</li> </ul>
	<b>2</b> A6 B6 C6 D6
In [16]:	<pre>3 A7 B7 C7 D7  df3 = pd.read_csv('D:\\24 - Machine_Learning\\download files\\df3.csv')</pre>
Out[16]:	df3
	<ul> <li>0 A8 B8 C8 D8</li> <li>1 A9 B9 C9 D9</li> </ul>
	<b>2</b> A10 B10 C10 D10
In [17]:	3 A11 B11 C11 D11 # CONCATENATION
[-/]	<pre>df4 = pd.concat([df1, df2, df3]) df4</pre>
Out[17]:	A         B         C         D           0         A0         B0         C0         D0
	1       A1       B1       C1       D1         2       A2       B2       C2       D2
	<ul><li>3 A3 B3 C3 D3</li><li>0 A4 B4 C4 D4</li></ul>
	1 A5 B5 C5 D5 2 A6 B6 C6 D6
	<ul> <li>3 A7 B7 C7 D7</li> <li>0 A8 B8 C8 D8</li> </ul>
	1 A9 B9 C9 D9 2 A10 B10 C10 D10
	3 A11 B11 C11 D11
In [18]:	<pre>df4.reset_index(inplace=True) df4 # to make the index of df4 in order</pre>
Out[18]:	index A B C D
	0         0         A0         B0         C0         D0           1         1         A1         B1         C1         D1
	2
	4  0  A4  B4  C4  D4 5  1  A5  B5  C5  D5
	6 2 A6 B6 C6 D6 7 3 A7 B7 C7 D7
	8  0  A8  B8  C8  D8 9  1  A9  B9  C9  D9
	10 2 A10 B10 C10 D10  11 3 A11 B11 C11 D11
In [21]:	<pre>df4.drop(['index'], axis = 1, inplace = True) df4</pre>
Out[21]:	# here we drop the extra index column  A B C D
	<ul><li>0 A0 B0 C0 D0</li><li>1 A1 B1 C1 D1</li></ul>
	2 A2 B2 C2 D2 3 A3 B3 C3 D3
	4 A4 B4 C4 D4  5 A5 B5 C5 D5
	6 A6 B6 C6 D6  7 A7 B7 C7 D7
	8 A8 B8 C8 D8
	9 A9 B9 C9 D9  10 A10 B10 C10 D10
In [22]:	<pre>11 A11 B11 C11 D11  pd.concat([df1, df2, df3], axis=1)</pre>
	# with column  A B C D A B C D
	0       A0       B0       C0       D0       A4       B4       C4       D4       A8       B8       C8       D8         1       A1       B1       C1       D1       A5       B5       C5       D5       A9       B9       C9       D9
	2 A2 B2 C2 D2 A6 B6 C6 D6 A10 B10 C10 D10 3 A3 B3 C3 D3 A7 B7 C7 D7 A11 B11 C11 D11
In [26]:	<pre>left = pd.DataFrame({'A':['A0', 'A1', 'A2'],</pre>
	'B':['B0', 'B1', 'B2']}, index = ['K0', 'K1', 'K2'])
	right = pd.DataFrame({'C':['C0', 'C1', 'C2'],
	left.join(right)  A B C D
Out[27]:	<b>KO</b> AO BO CO DO
	K1       A1       B1       NaN       NaN         K2       A2       B2       C1       D1
	right.join(left)
Out[28]:	C         D         A         B           KO         CO         DO         AO         BO
	K2         C1         D1         A2         B2           K3         C2         D2         NaN         NaN