1. Import CSV files

It is important to note that a single backslash does not work when specifying the file path. You need to either change it to forward slash or add one more backslash like below

```
import pandas as pd
mydata= pd.read_csv("C:\\Users\\Deepanshu\\Documents\\file1.csv")
```

If no header (title) in raw data file

```
mydata1 = pd.read_csv("C:\\Users\\Deepanshu\\Documents\\file1.csv", header
= None)
```

You need to include **header = None** option to tell Python there is no column name (header) in data.

Add Column Names

We can include column names by using names= option.

```
mydata2 = pd.read_csv("C:\\Users\\Deepanshu\\Documents\\file1.csv", header
= None, names = ['ID', 'first_name', 'salary'])
```

The variable names can also be added separately by using the following command.

```
mydata1.columns = ['ID', 'first_name', 'salary']
```

Create sample data for import

Save data as CSV in the working directory

The following command tells python to write data in CSV format.

mydt.to_csv('workingfile.csv', index=False)

Example 1 : Read CSV file with header row

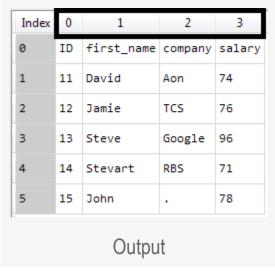
It's the basic syntax of read_csv() function. You just need to mention the filename.

mydata = pd.read_csv("workingfile.csv")

Example 2 : Read CSV file without header row

mydata0 = pd.read_csv("workingfile.csv", header = None)

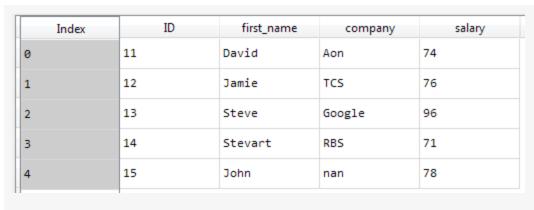
If you specify "header = None", python would assign a series of numbers starting from 0 to (number of columns - 1). See the output shown below -



Example 3 : Specify missing values

The na_values= options is used to set some values as blank / missing values.

mydata00 = pd.read_csv("workingfile.csv", na_values=['.'])



Set Missing Values

Example 4 : Set Index Column to ID

mydata01 = pd.read_csv("workingfile.csv", index_col ='ID')

Index	first_name	company	salary
11	David	Aon	74
12	Jamie	TCS	76
13	Steve	Google	96
14	Stevart	RBS	71
15	John		78

Python: Setting Index Column

As you can see in the above image, the column ID has been set as index column.

Example 5: Read CSV File from URL

You can directly read data from the CSV file that is stored on a web link.

mydata02 = pd.read_csv("http://winterolympicsmedals.com/medals.csv")

Example 6 : Skip First 5 Rows While Importing CSV

mydata03 = pd.read_csv("http://winterolympicsmedals.com/medals.csv",
skiprows=5)

It reads data from 6th row (6th row would be a header row)

Example 7 : Skip Last 5 Rows While Importing CSV

mydata04 = pd.read_csv("http://winterolympicsmedals.com/medals.csv",
skip_footer=5)

It excludes last5 rows.

Example 8 : Read only first 5 rows

mydata05 = pd.read_csv("http://winterolympicsmedals.com/medals.csv", nrows=5)

Example 9: Read only specific columns

mydata07 = pd.read_csv("http://winterolympicsmedals.com/medals.csv",
usecols=(1,5,7))

The above code reads only columns placed at first, fifth and seventh position.

Example 10: Read some rows and columns

mydata08 = pd.read_csv("http://winterolympicsmedals.com/medals.csv", usecols=(1,5,7),nrows=5)