

## CSV FILES

**CSV (Comma-separated values)** files are the comma separated values. This type of file can be view as an excel file and separated by commas. CSV file is nothing more than a simple text file. However, it is the most common, simple and easiest method to store tabular data. This particular format arranges tables by a specific structure divided into rows and columns.

Once we have the DataFrame, we can persist it in CSV on the local disk. Let's first create CSV file using data that is currently present in the DataFrame, we can store the data of this DataFrame in CSV format using API called `to_csv(...)` of Pandas

### Importing/Exporting Data between CSV files and DataFrames

Pandas `read_csv()` function is used to import a CSV file to DataFrame format. Syntax:

```
df.read_csv('file_name.CSV', header=None)
```

Here, Header allows you to specify which row will be used as column names for your DataFrame. Expected int value or a list of int values.

If your file does not have a header, then simply set `header=None`

**To export a Pandas DataFrame to a CSV file**, use `to_csv` function.

This saves a DataFrame as a CSV file.

Syntax:

```
to_csv(parameters)
```

1. Write python code to write DataFrame data into "a.csv" file.

Ans.

```
import pandas as pd
Dic={ 'empno': (101,102,103,104), 'name':('a','b','c','d'),
      'salary': (3000,5000,8000,9000)}
df=pd.DataFrame(Dic)
df.to_csv("a.csv")
```

Note: csv can be opened in excel, notepad, etc.

2. Modify the above code and write the data in d:\software folder.

Ans.

```
import pandas as pd
```

```
Dic={'empno':(101,102,103,104),'name':('a','b','c','d'),  
'salary':(3000,5000,8000,9000)}
```

```
df=pd.DataFrame(Dic)
```

```
df.to_csv(r"D:\software\a.csv") # or df.to_csv("D:\\software\\a.csv")
```

Read CSV File as Pandas Using the read\_csv() function from the pandas package, you can import tabular data from CSV files into pandas DataFrame:

3. Write python code to read a csv file "test.csv" from D:\

Ans.

```
import pandas as pd
```

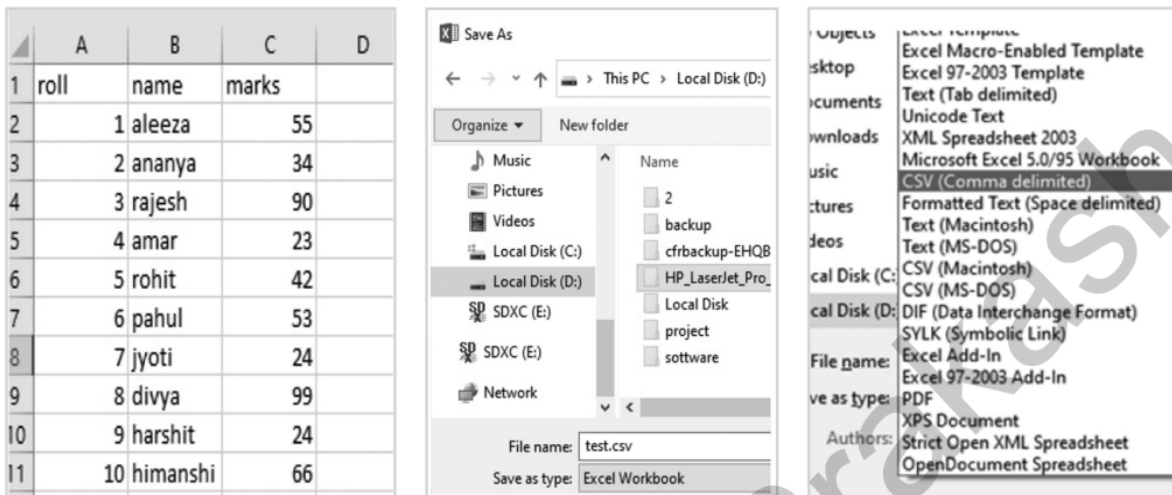
```
df = pd.read_csv('d:\\test.csv') #read the csv file
```

```
print(df)
```

### How to Create CSV File in Excel

Step 1: Open excel and write data in worksheet

Step 2: Select file option from menu and click on save as ...



Step 3: Select drive and folder name where you want to save csv file

Step 4: Click on save as type option and select csv option from list.

Step 5: Click on save button

\*\*\*\*\*