

## ▼ Chapter 2 - Data Preparation Basics

### Segment 5 - Grouping and data aggregation

```
import numpy as np
import pandas as pd
from pandas import Series, DataFrame
```

#### ▼ Grouping data by column index

```
address = 'G:\document\TCS\Ex_Files_Python_Data_Science_EssT_Pt_1\Exercise Files\Data\mtcars.csv'

cars = pd.read_csv(address)
#cars= pd.read_csv(address)

cars.columns = ['car_names', 'mpg', 'cyl', 'disp', 'hp', 'drat', 'wt', 'qsec', 'vs', 'am', 'gear', 'carb']
#cars.columns=[]
cars.head()
```

```
-----  
FileNotFoundError                                Traceback (most recent call last)  
<ipython-input-4-8c3097012e41> in <module>()
```

```
cars_groups = cars.groupby(cars['cyl'])  
#cars_groups = cars.groupby(cars['cyl'])  
cars_groups.mean()
```



```
-----  
NameError                                Traceback (most recent call last)  
<ipython-input-2-e4f360ee40d8> in <module>()  
----> 1 cars_groups = cars.groupby(cars['cyl'])  
      2 #cars_groups = cars.groupby(cars['cyl'])  
      3 cars_groups
```

NameError: name 'cars' is not defined

SEARCH STACK OVERFLOW

```
FileNotFoundError: [Errno 2] NO SUCH FILE OR DIRECTORY:  G:\\document\\ICS\\Ex_Files_Python_data_science_ESS1_PT_1\\Exercise  
Files\\Data\\mtcars.csv'
```