**Importing Data**

**Different Types of files:**

* Flat files🡺 Normal text files, csv files
* Other sources🡺Excel files
* DataBases🡺MySql

**Flat Files:**

* Text Files: file=open(‘file\_name’,’r/w’)
  + - * File.read()🡺returns text
      * File.close()🡺closes the file access
      * File.closed🡺returns bool

**Or**

with open('moby\_dick.txt') as file:

print(file.readline())

print(file.readline())

print(file.readline())

**Importing Data using Numpy:**

* Numpy package is mainly used for storing numerical data
  + Two main Methods to read data
    - loadtext()🡺 used for single data type
    - genfromtext()🡺used for mixed data type
  + **loadtext():**

**import numpy as np**

data = np.loadtxt(**filename**, **delimiter**=',')

**delimiter 🡺default is white Space, so need to specify either ‘ ,’ ‘ tab**

data = np.loadtxt(filename, delimiter=',', **skiprows**=1)

**skiprows🡺To Skip the first column**

data = np.loadtxt(filename, delimiter=',', skiprows=1, **usecols**=[0, 2])

**usecols🡺 use only specific rows and columns**

:data = np.loadtxt(filename, delimiter=',', **dtype**=str)

**dtype🡺 converts the entire data into specified datatype**