Day 25

DATA:

day,temp,condition  
Monday,12,Sunny  
Tuesday,14,Rain  
Wednesday,15,Rain  
Thursday,14,Cloudy  
Friday,21,Sunny  
Saturday,22,Sunny  
Sunday,24,Sunny

CSV FILE:

CSV- comma-separated values

Inbuilt Python library.

PANDAS:

OUTPUT:

0 12

1 14

2 15

3 14

4 21

5 22

6 24

Name: temp, dtype: int64

import pandas

data=pandas.read\_csv("weather\_data.csv")  
print(data["temp"])

TWO MAIN DATA TYPES:

* DATA FRAMES
* SERIES

Dataframe- a whole table

Series- any single column

Code:

OUTPUT:

[12, 14, 15, 14, 21, 22, 24]

24

import pandas  
data = pandas.read\_csv("weather\_data.csv")  
temp\_list = data["temp"].to\_list()  
print(temp\_list)  
print(data["temp"].max())

TO RETRIEVE A ROW:

print(data[data.day == "Monday"])

OUTPUT:

day temp condition

0 Monday 12 Sunny

OR  
print(data[data["day"] == "Monday"])

TO RETRIEVE A ROW WITH MAXIMUM TEMPERATURE:

maxvalue = data["temp"].max()

print(data[data.temp == maxvalue])

OR

print(data[data.temp == data.temp.max()])

TO CREATE A NEW DATA FARME:

Import pandas

data\_dict = {  
 "students":["a","b","c"],  
 "scores": [66,77,88]  
}  
new = pandas.DataFrame(data\_dict)  
print(new)