What is a Pandas Series?

A Pandas Series is like a column in a table.

It is a one-dimensional array holding data of any type.

Create Labels

With the index argument, you can name your own labels.

When you have created labels, you can access an item by referring to the label.

```
print(myvar["y"])
```

```
import pandas as pd

calories = {"day1": 420, "day2": 380, "day3": 390}

myvar = pd.Series(calories)

print(myvar)

Note: The keys of the dictionary become the labels.

import pandas as pd

calories = {"day1": 420, "day2": 380, "day3": 390}

myvar = pd.Series(calories, index = ["day1", "day2"])

print(myvar)
```

DataFrames

Data sets in Pandas are usually multi-dimensional tables, called **DataFrames.**

Series is like a column, a DataFrame is the whole table.

How will you add a column to a pandas DataFrame?

importing the pandas library

import pandas as pd

info = {'one': pd.Series([1, 2, 3, 4, 5], index=['a', 'b', 'c', 'd', 'e']),

'two': pd.Series([1, 2, 3, 4, 5, 6], index=['a', 'b', 'c', 'd', 'e', 'f'])}

info = pd.DataFrame(info)

Add a new column to an existing DataFrame object

print ("Add new column by passing series")

info['three']=pd.Series([20,40,60],index=['a','b','c'])

print (info)

print ("Add new column using existing DataFrame columns")

info['four']=info['one']+info['three']

print (info)