

# What is Pandas?

Pandas is a Python library used for working with data sets.

It has functions for analyzing, cleaning, exploring, and manipulating data.

The name "Pandas" has a reference to both "Panel Data", and "Python Data Analysis" and was created by Wes McKinney in 2008.

## Why Use Pandas?

Pandas allows us to analyze big data and make conclusions based on statistical theories.

Pandas can clean messy data sets, and make them readable and relevant.

Relevant data is very important in data science.

## What Can Pandas Do?

Pandas gives you answers about the data. Like:

- Is there a correlation between two or more columns?
- What is average value?
- Max value?
- Min value?

Pandas are also able to delete rows that are not relevant, or contain wrong values, like empty or NULL values. This is called *cleaning* the data.

# Installation of Pandas

If you have [Python](#) and [PIP](#) already installed on a system, then installation of Pandas is very easy.

Install it using this command:

```
C:\Users\Your Name>pip install pandas
```

## What is PIP?

PIP is a package manager for Python packages, or modules if you like.

**Note:** If you have Python version 3.4 or later, PIP is included by default.

## What is a Package?

A package contains all the files you need for a module.

Modules are Python code libraries you can include in your project.

## Check if PIP is Installed

Navigate your command line to the location of Python's script directory, and type the following:

### Example

Check PIP version:

```
C:\Users\Your Name\AppData\Local\Programs\Python\Python36-32\Scripts>pip -  
-version
```

```
import pandas as pd
```

```
df = pd.read_csv('Quiz-2-FCS.csv')
#print(df.head())

specified_column=df[['Enrollment_No','Username','Mobile
Number']]

print(specified_column)


Laptop_dict = {'Product':
['Laptop','Printer','Monitor','Tablet'],
               'Price': [1200,100,300,150]}
#print(Laptop_dict)
Laptop_df=pd.DataFrame(Laptop_dict)
#print(Laptop_df)

#print(df.to_string())

#print(df['Batch'].unique())
#df1=df[df['score']>5]
#print(df1)

#df1.to_csv('new_csv.csv')
```