Python Pandas by Dr. Angshu (Part 1)

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In [1]:

```
#1. import python packages
import pandas as pd
import numpy as np
```

In [2]:

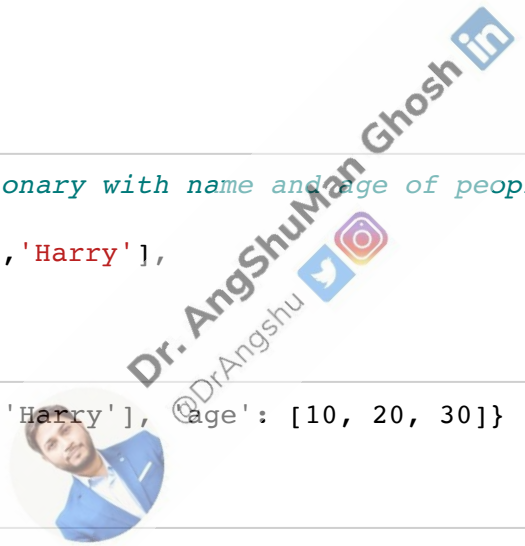
```
#2. Create a Series in Pandas
X = pd.Series([1,2,3,4],index=['a','b','c','d'])
print(X)
```

```
a    1
b    2
c    3
d    4
dtype: int64
```

In [3]:

```
#3. Create a Python Dictionary with name and age of people
age_data = {
    "name": ['Tom','Dick','Harry'],
    "age": [10,20,30]
}
print(age_data)
```

```
{'name': ['Tom', 'Dick', 'Harry'], 'age': [10, 20, 30]}
```



In [4]:

```
#4. Create a Data Frame in Pandas
df = pd.DataFrame(data=age_data, columns = ["name","age"])
print(df)
```

```
    name  age
0    Tom   10
1   Dick   20
2  Harry   30
```

In [5]:

```
#5.Get the data at 3rd Row
print(df.iloc[2,:])
```

```
name    Harry
age        30
Name: 2, dtype: object
```

In [6]:

```
#6.Get the data at 1st Column
print(df.iloc[:,0])
```

```
0      Tom
1     Dick
2    Harry
Name: name, dtype: object
```

In [7]:

```
#7.Get the data at 3rd row and 1st Column
print(df.iloc[2,1])
```

```
30
```

In [8]:

```
#8. Add a new Column in Data Frame with same values for all rows
df['Gender'] = "Male"
print(df)
```

```
    name  age Gender
0    Tom   10   Male
1   Dick   20   Male
2  Harry   30   Male
```

In [9]:

```
#9. Get the data of "name" Column
print(df["name"])
```

```
0      Tom
1     Dick
2    Harry
Name: name, dtype: object
```

In [10]:

```
#10. Get all the Column names of the Data Frame
print(df.columns)
```

```
Index(['name', 'age', 'Gender'], dtype='object')
```

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