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Python : Pandas programming

Pandas is an open-source data analysis and manipulation library for the Python programming language. It provides a set of tools for working with structured data, including the ability to load, filter, transform, and analyze data. Pandas is particularly useful for working with tabular data, such as spreadsheets or databases. Its core data structure is the DataFrame, which is a two-dimensional table that can hold data of various types, and allows for easy indexing, filtering, and aggregation. Some common tasks in pandas programming include loading data from files or databases, cleaning and transforming data, calculating summary statistics, and visualizing data using plots and charts.

Python Programming: Pandas Series

Program: A **Pandas Series** is like a column in a table

```
import pandas as pd
a = [1, 7, 2]
myvar = pd.Series(a)
print(myvar)
```

Output:

```
0    1
1    7
2    2
dtype: int64
```

Program:

```
import pandas as pd
calories = {"day1": 420, "day2": 380, "day3": 390}
myvar = pd.Series(calories)
print(myvar)
```

Output:

```
day1    420
day2    380
day3    390
dtype: int64
```



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