

How can I retrieve a specific cell value from a Pandas DataFrame?

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Pandas DataFrame is a powerful data structure that allows for efficient manipulation and analysis of data. One common task when working with a DataFrame is retrieving a specific value from a particular cell. To do this, one can use the `iloc` method and specify the row and column index of the desired cell. Alternatively, the `loc` method can be used to retrieve the value based on the labeled index of the row and column. Both methods provide a simple and efficient way to retrieve a specific cell value from a Pandas DataFrame.

Get Cell Value from Pandas DataFrame

You can use the following syntax to get a cell value from a pandas DataFrame:

#iloc method

df.iloc

#at method

df.at

#values method

df.values

Note that all three methods will return the same value.

The following examples show how to use each of these methods with the following pandas DataFrame:

```
import pandas as pd
```

#create DataFrame

```
df = pd.DataFrame({'points': ,  
'assists': ,  
'rebounds': })
```

#view DataFrame

```
df
```

```
points assists rebounds
```

```
0 25 5 11
```

```
1 12 7 8
```

```
2 15 7 10
```

```
3 14 9 6
```

```
4 19 12 6
```

```
5 23 9 5
```

```
6 25 9 9
```

```
7 29 4 12
```

Method 1: Get Cell Value Using iloc Function

The following code shows how to use the `.iloc` function to get various cell values in the pandas DataFrame:

```
#get value in first row in 'points' column
```

```
df.iloc
```

25

```
#get value in second row in 'assists' column  
df.iloc
```

7

Method 2: Get Cell Value Using at Function

The following code shows how to use the .at function to get various cell values in the pandas DataFrame:

```
#get value in first row in 'points' column  
df.at
```

25

```
#get value in second row in 'assists' column  
df.at
```

7

Method 3: Get Cell Value Using values Function

The following code shows how to use the .values function to get various cell values in the pandas DataFrame:

**#get value in first row in 'points' column
df.values**

25

**#get value in second row in 'assists' column
df.values**

7

Notice that all three methods return the same values.

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