WHERE()

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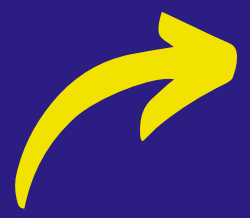
Today, let's look into the powerful **np.where()** function in **NumPy** and explore its versatility in data manipulation.

It is used to perform conditional operations or element wise selection on a Dataframe, let's have a look how it can be done

>>>



2

Here's a simple example to demonstrate it's usage:

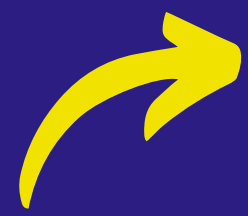
```
import pandas as pd
import numpy as np

# Create a DataFrame
data = {'Name': ['John', 'Alice', 'Bob', 'Emily', 'Jack'],
        'Age': [25, 30, 35, 40, 45]}

df = pd.DataFrame(data)

# Use np.where() to create a new column based on a condition
df['Status'] = np.where(df['Age'] > 30, 'Senior', 'Junior')

print(df)
```



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OUTPUT;

```
   Name  Age  Status
0  John   25  Junior
1  Alice  30  Junior
2  Bob    35  Senior
3  Emily  40  Senior
4  Jack   45  Senior
```

In this example we have a DataFrame "**df**" with columns "**Name**" and "**Age**. We want to add one more column "**Status**" based on condition "**Age>30**". If condition is **True** the value in "**Status**" column should be set to "**Senior**" else "**Junior**".

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```
np.where(df['Age'] > 30, 'Senior', 'Junior')
```

We can do this by using **np.where()** function as shown in the example. The first argument "df['Age'] > 30" is the condition. Second argument "**Senior**" is the value to be assigned if the condition is met and the third argument "**Junior**" is the value to be assigned if the given condition is not satisfied.

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SUMMARY

np.where() can be used within pandas DataFrame operations to perform conditional operations, create new columns, update existing columns, or apply transformations based on specific conditions.

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