

11. PANDAS – INPLACE PARAMETER

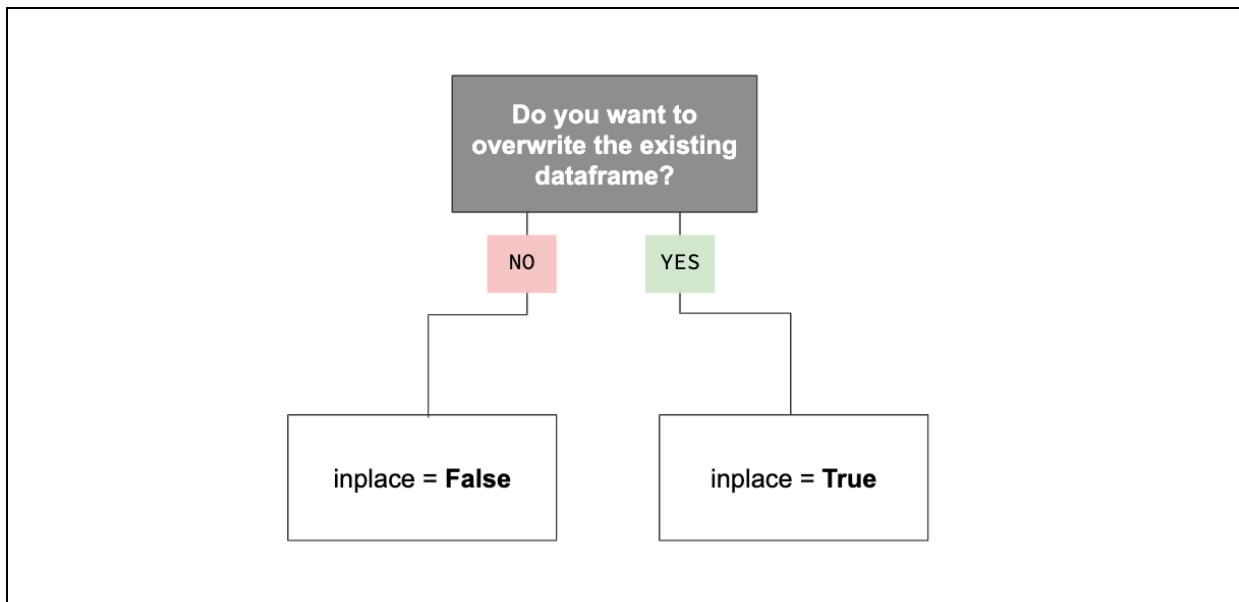
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11. PANDAS – INPLACE PARAMETER

1. The inplace parameter

- ✓ inplace is a parameter for DataFrame methods like,
 - rename(p, inplace)
 - drop(p, inplace),
 - sort_values(p, inplace),
 - set_index(p, inplace) etc
- ✓ This inplace parameter accepts two values,
 - inplace = **False** means it cannot overwrite the existing dataframe
 - inplace = **True** means it can overwrite the existing dataframe.



Simple words

- ✓ In-place means that you should update the original object instead of creating new object

2. rename(p) method – without inplace parameter

- ✓ rename(p) is a predefined method in DataFrame
- ✓ We can access rename() method by using DataFrame object.
- ✓ We can even change multiple column names by using rename(p) method.

Program rename(p) method - without inplace parameter
Name demo1.py
Input file sales3.csv

```
import pandas as pd

df1 = pd.read_csv("sales3.csv")

d = {"ord id": "order_id", "cust name": "customer_name", "cust id": "customer_id", "prod name": "product_name", "prod cost": "product_cost"}

print(df1.head())
df1.rename(columns = d)
print()
print(df1.head())
```

Output

```
ord id cust name cust id prod name prod cost
0 192837 Veeru 3 LG Mobile 65999
1 192838 Neelima 19 Apple iPad 10.2-inch 63000
2 192839 Balaji 12 34in Ultrawide Monitor 75999
3 192840 Shahid 20 iPhone 11 60000
4 192841 Vinay 10 Bose SoundSport Headphones 69999

ord id cust name cust id prod name prod cost
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```

3. rename(p) method – with inplace parameter

- ✓ rename(p, inplace = **True**) is a predefined method in DataFrame.
- ✓ We can provide inplace parameter to rename(p, inplace = **True**) method
- ✓ If we provide inplace parameter then directly changes will be apply on original DataFrame.
- ✓ Whenever if we apply inplace = **True** then, it should update the original DataFrame instead of creating new DataFrame.

Program rename(p) method - with inplace parameter
Name demo2.py
Input file sales3.csv

```
import pandas as pd

df1 = pd.read_csv("sales3.csv")

d = {"ord id": "order_id", "cust name": "customer_name", "cust
id": "customer_id", "prod name": "product_name", "prod cost":
"product_cost"}

print(df1.head())
df1.rename(columns = d, inplace = True)
print()
print(df1.head())
```

Output

```
ord id cust name cust id prod name prod cost
0 192837 Veeru 3 LG Mobile 65999
1 192838 Neelima 19 Apple iPad 10.2-inch 63000
2 192839 Balaji 12 34in Ultrawide Monitor 75999
3 192840 Shahid 20 iPhone 11 60000
4 192841 Vinay 10 Bose SoundSport Headphones 69999

order_id customer_name customer_id product_name product_cost
0 192837 Veeru 3 LG Mobile 65999
1 192838 Neelima 19 Apple iPad 10.2-inch 63000
2 192839 Balaji 12 34in Ultrawide Monitor 75999
3 192840 Shahid 20 iPhone 11 60000
4 192841 Vinay 10 Bose SoundSport Headphones 69999
```