

Renaming and Combining





Renaming



In pandas, rename columns using df.rename(columns={'old_name': 'new_name'}) or directly with df.columns = ['new_name1', 'new_name2'].

```
PS D:\Documents\GitHub\Pandas\vid6> python ex1.py
                                                  Column1 Column2
    import pandas as pd
    # Create a simple DataFrame
    df = pd.DataFrame({
                                            O PS D:\Documents\GitHub\Pandas\vid6>
       'A': [1, 2, 3],
       'B': [4, 5, 6]
 6
 8
    # Rename columns using the rename method
    df.rename(columns={'A': 'Column1', 'B': 'Column2'}, inplace=True)
11
    print(df)
```



```
PS D:\Documents\GitHub\Pandas\vid6> python ex2.py
Column1 Column2
row1 1 4
row2 2 5
row3 3 6
PS D:\Documents\GitHub\Pandas\vid6>
```

Combining



In pandas, combine DataFrames using pd.concat([df1, df2]) to stack them or df1.merge(df2, on='key') to join based on a common column, like SQL joins.

```
import pandas as pd
 3
    # Create two DataFrames
    df1 = pd.DataFrame({'A': [1, 2], 'B': [3, 4]})
    df2 = pd.DataFrame({'A': [5, 6], 'B': [7, 8]})
 6
                                         PS D:\Documents\GitHub\Pandas\vid6> python
    # Stack the DataFrames vertically
                                                В
    combined_df = pd.concat([df1, df2])
                                           0 1 3
 8
                                           1 2 4
9
    print(combined df)
10
                                           PS D:\Documents\GitHub\Pandas\vid6>
```

```
import pandas as pd

frames with a common key

frame({'key': [1, 2], 'value1': ['A', 'B']})

frame({'key': [1, 2], 'value2': ['C', 'D']})

frame({'key': [1, 2], 'value2': ['C', 'D']})

frames based on the 'key' column

frames based on the
```







Thankyou