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In [5]: #P.12: Creating dataframe to implement one hot coding from CSV file.
#Roll No:                                     Batch:B5
#date: 24/9/2024
import pandas as pd
from sklearn.preprocessing import OneHotEncoder

data={
    'CustomerID':[1,2,3,4,5,6],
    'Age':[25,30,22,35,28,18],
    'Gender':['Male','female','Male','female','Male','Male'],
}

df=pd.DataFrame(data)

print("Original DataFrame:")
print(df.head())

catagorical_columns=df.select_dtypes(include=['object']).columns

df_encoded=pd.get_dummies(df,columns=catagorical_columns,drop_first=True)

print("\n DataFrame after One-Hot Encoding:")
print(df_encoded.head())

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Original DataFrame:

	CustomerID	Age	Gender
0	1	25	Male
1	2	30	female
2	3	22	Male
3	4	35	female
4	5	28	Male

DataFrame after One-Hot Encoding:

	CustomerID	Age	Gender_female
0	1	25	False
1	2	30	True
2	3	22	False
3	4	35	True
4	5	28	False