***#Importing data***

import pandas as pd

file\_path=r'C:\Users\...\HousingData.csv'

data=pd.read\_csv(file\_path)

***#Observational data***

print(data.head())

print(data.info())

print(data.isnull().sum())

***#Add letters and symbols to columns, for example 0.538→0a.5b3 8c***

data['NOX']=data['NOX'].apply(lambda x:str(x))#添加字母符号，0.538-0a.5b3 8c

data['NOX']=data['NOX'].apply(lambda x:x[0:1]+'a'+x[1:3]+'b'+x[3:4]+' '+x[4:]+'c')

#print(data['NOX'])

#***#Add letters and symbols to columns, for example 1→…a1\_.//b***

data['RAD']=data['RAD'].apply(lambda x:str(x))

data['RAD']=data['RAD'].apply(lambda x:'...a'+x+'\_.//b')

***#Merge columns***

data['RM']=data['RM'].apply(lambda x:str(x))

data['DIS']=data['DIS'].apply(lambda x:str(x))

data['RM+DIS']=data['RM']+' '+data['DIS']

***#Delete the original columns***

data=data.drop(columns=['RM','DIS'])

***#Adding extra columns***

data['aha']='aha'

***#exporting data***

data.to\_csv('housing\_data1.csv')