import pandas as pd

data = {

    'Name': ['Alice', 'Bob', 'Charlie', 'Diana'],

    'Age': [25, 30, 35, 40],

    'City': ['New York', 'Los Angeles', 'Chicago', 'Houston']

}

df = pd.DataFrame(data)

"""print(df)

print(df.head(2))

print(df.info())

print(df['Age'])"""

df=pd.read\_csv('test.csv')

#print(df)

#print(df.head())

#print(df.info())

print(df['Age'])

df.describe()

df.shape()

print(df.isnull().sum)

import pandas as pd  
  
df = pd.read\_csv('students.csv')  
  
print("Original Columns:")  
for col in df.columns:  
    print(col)  
  
# Insert a new column 'City' after 'Age' (i.e., at index 2)  
city\_data = ['Ahmedabad', 'Surat', 'Vadodara']  
df.insert(loc=2, column='City', value=city\_data)  
  
# Add a column 'Remarks' at the end  
remarks\_data = ['Excellent', 'Good', 'Outstanding']  
df['Remarks'] = remarks\_data  
  
print("\nUpdated DataFrame:")  
print(df)

import pandas as pd

#df = pd.read\_csv('students\_gujarat.csv')

"""print(df)

print([df.info](http://df.info/" \t "_blank)())

df.head()

df.head(3)

df.tail()

df.tail(3)"""

#print(df['StudentID'])

#df.iloc[:, 0]

#df.iloc[:, 1]

#df.iloc[:, 0:2]

#df.iloc[0:6, 0:4]

#FIND MEAN of every column

#mean\_age = df['Age'].mean()

#mean\_age

#median\_age = df['Age'].median()

#median\_age

#mode\_age = df['Age'].mode()

#mode\_age

#df.isna()

#null\_counts = df.isna().sum()

#null\_counts

#columns\_null = null\_counts[null\_counts > 0]

#columns\_null

#mean\_age = df['Age'].mean()

#df['Age'] = df['Age'].fillna(mean\_age)

#df = pd.read\_csv('students\_gujarat.csv')

#median\_age = df['Age'].median()

#df['Age'] = df['Age'].fillna(median\_age)

#df

#df = pd.read\_csv('students\_gujarat.csv')

#mod\_age = df['Age'].median()

#df['Age'] = df['Age'].fillna(mod\_age)

#df

#df = pd.read\_csv('students\_gujarat.csv')

#df['Age'] = df['Age'].fillna(18)

#df\_copy = df.copy()

#df\_copy

#df = pd.read\_csv('students\_gujarat.csv')

#df

#df\_dropped = df.dropna()

#df\_dropped

import numpy as np

df = pd.read\_csv('students\_gujarat.csv')

mean\_age = df['Age'].mean()

df['Age'] = df['Age'].fillna(mean\_age)

#df.Age

#filtered\_age = df['Age'] <= 18

#filtered\_age = df.Age <= 18

#filtered\_age = df[df['Age'] <= 18]

#filtered\_age = df[df.Age <= 18]

#filtered\_age

df = pd.read\_csv('students\_gujarat.csv')

mean\_age = df['Age'].mean()

df['Age'] = df['Age'].fillna(mean\_age)

#student\_type = np.where(df['Age'] <= 18, 'School','College')

#student\_type

        #Add new column

df['student\_type'] = np.where(df['Age'] <= 18, 'School','College')

df