PRAVEEN DONDAPATI #700765896

ICP₃

```
value_column = df['Value']
print(value_column)
Q
                                    0.579471

→ 0
1

{x}
                                    0.365414
0.128926
<del>Ол</del>
                               0.137030
0.920268
                   99995 0.926394
999996 0.426359
999997 0.904199
99998 0.101513
99999 0.266912
Name: Value, Length: 1000000, dtype: float64
[ ] df_renamed = df.rename(columns={'ID': 'ID number', 'Value': 'Random value', 'Category': 'Choice'})
print(df_renamed.head(5))
            | ID number | Random value Choice | 0.579471 | B | 1 | 2 | 0.365414 | B | 2 | 3 | 0.128926 | B | 3 | 4 | 0.137939 | A | 5 | 0.920268 | A |
<>
          [ ] import pandas as pd
\equiv
              # Optional setting for display purposes (not a bug)
pd.set_option('display.max_rows', None)
```

```
:=
         o import pandas as pd
Q
                # Optional setting for display purposes (not a bug)
pd.set_option('display.max_rows', None)
{x}
               # Corrected data with matching lengths for all columns
©<del>∵</del>
print("Original DataFrame:")
                print(student data)
                print("\nSplit the said data on school_code, class wise:")
result = student_data.groupby(['school code', 'class'])
                for name, group in result:
    print("\nGroup:")
    print(name)
<>
                     print(group)
\equiv
         → Original DataFrame:
              school code class name date_Of_Birth age height weight \S1 S001 V Alberto Franco 15/05/2002 12 173 35
>_
                                                                                                     3 30
                     print(group)
          0
Q

        Original DataFrame:
        school code class
        name date_0f_Birth
        age

        S1
        5001
        V
        Alberto Franco
        15/05/2002
        12

        S2
        5002
        V
        Gino Mcneill
        17/05/2002
        12

        S3
        5003
        VI
        Ryan Parkes
        16/02/1909
        13

        S4
        5001
        VI
        Eesha Hinton
        25/09/1998
        13

        S5
        5002
        V
        David Parkes
        15/09/1997
        12

        S6
        5004
        VI
        Praveen
        10/08/2000
        14

                                                                                                       weight \
35
32
33
30
31
32
\{x\}
©<del>...</del>
address
street1
street2
                     street3
street1
                     street2
                S6 street4
                Split the said data on school_code, class wise:
               <>
                S1 street1
               Group: ('S001', 'VI') school code class name date_0f_Birth age height weight address S4 S001 VI Eesha Hinton 25/09/1998 13 167 30 street1
=
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                                                                                                                                                                                                      ✓ Disk 🚍 🔻 🕈 Gemini 🔥
        + Code + Text
:=
          S4 S801 VI Eesha Hinton 25/09/1998 13 167
                                                                                                       30 street1
Q
          Group: ('S002', 'V')
               {x}
©<del>...</del>
              Group: ('5093', 'VI') school code class name date_0f_Birth age height weight address S3 S083 VI Ryan Parkes 16/02/1999 13 186 33 street3
[20] from google.colab import drive drive.mount('<u>/content/drive</u>')
          Fr Drive already mounted at /content/drive; to attempt to forcibly remount, call drive.mount("/content/drive", force_remount=True).
      [22] import pandas as pd
<>

// [24] dff=pd.read_csv('/content/drive/My Drive/data.csv')
```

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[11] des=dff.describe()

print(des)

```
:=
            [24] dff=pd.read_csv('<u>/content/drive/My Drive/data.csv</u>')
Q
{x} os des=dff.describe()

        count
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                      ₹
[14] dff.isnull().values.any()
                      ⊕ True
                      mean_v=dff.mean()
                                   #Replace null values with the mean of the respective column datacsv.fillna(mean values, inplace=True)
                                  #MEPJAGE HUIT VALUES WILL THE HEAD OF THE PESPECTED

#Display the DataFrame after replacing null values

print("In dataFrame after replacing")
 <>
                                   print(dff.head())
\equiv
                    dataframe after replacing

Duration Pulse Maxoulse Calories
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                                 Q
                      \widehat{\pm^*}
\{x\}
<del>Ол</del>
 aggregation = dff.agg({
   'Pulse': ['min', 'max', 'count', 'mean'],
   'Calories': ['min', 'max', 'count', 'mean']
                                    print("\n The Aggregation of Pulse and Calories are:")
                                   print(aggregation)
                                The Aggregation of Pulse and Calories are:

Pulse Calories

min 80.000000 50.300000
max 159.000000 1800.400000
count 169.000000 164.000000
mean 107.461538 375.790244
                  [] filtered_dff_500_1000 = dff[(dff['Calories'] >= 500) & (dff['Calories'] <= 1000)]
print("\n The Rows with Calories between 500 and 1000:")
print(filtered_dff_500_1000)
 <>
\equiv
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                                   The Rows with Calories between 500 and 1000:
Duration Pulse Maxpulse Calories
>_
:=
  Q
                      \longrightarrow The Rows with Calories between 500 and 1000:
                                              Duration Pulse Maxpulse Calories

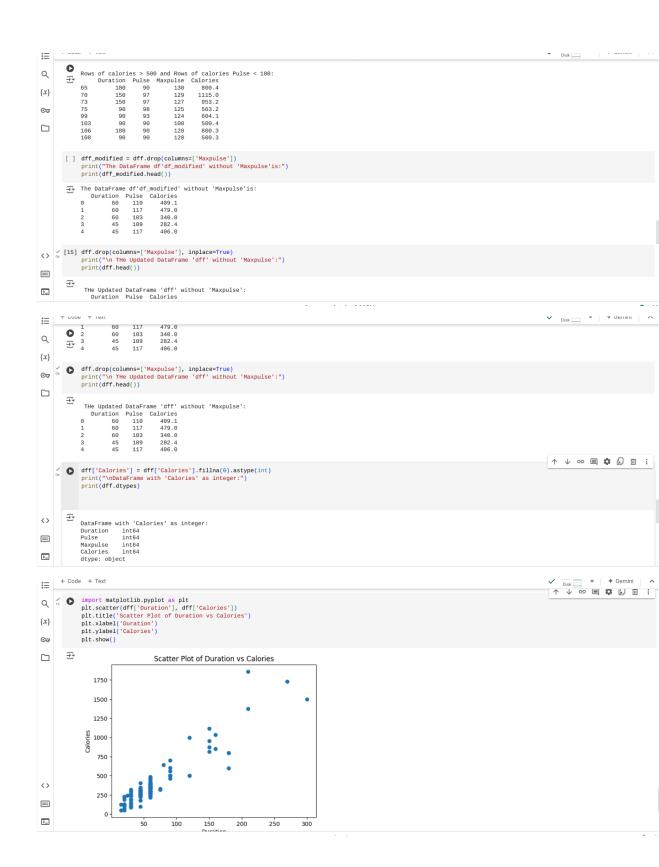
80 123 146 643.1

160 109 135 853.0

180 90 130 800.4
{x}
                                 62
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127
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125
130
127
124
110
100
100
120
                                                                                                                                       873.4
                                                                                                                                      816.0
700.0
953.2
563.2
500.4
500.0
600.1
604.1
500.0
500.0
500.4
800.3
500.3
                    [ ] filtered_df_calories_pulse = dff[(dff['Calories'] > 500) & (dff['Pulse'] < 100)]
print("\nRows of calories > 500 and Rows of calories Pulse < 100:")
print(filtered_df_calories_pulse)
 <>
                                Rows of calories > 500 and Rows of calories Pulse < 100:

Duration Pulse Maxpulse Calories
65 180 90 130 800.4
70 150 97 129 1115.0
73 150 97 127 953.2
75 00 00 126 E02.2
=:
>_
```

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My GitHub link: https://github.com/PraveenDondapati/bda.git

My video link: