```
Insert Cell Kernel Widgets
                                                                                                                     Python 3 (ipykernel) O
                                                                                                        Not Trusted
             View
✓ ☐ Autosave interval (min): off
     In [35]: import pandas as pd
              weather_data = {
                  'day': ['1/1/2017','1/2/2017','1/3/2017','1/4/2017','1/5/2017','1/6/2017'],
                  'temperature': [32,35,28,24,32,31],
                  'windspeed': [6,7,2,7,4,2],
                  'event': ['Rain', 'Sunny', 'Snow', 'Snow', 'Sunny', 'Sunny']
              df = pd.DataFrame(weather_data)
     Out[35]:
                    day temperature windspeed event
               0 1/1/2017
                               32
                                        6 Rain
               1 1/2/2017
                               35
                                        7 Sunny
               2 1/3/2017
                                        2 Snow
               3 1/4/2017
                              24
                                        7 Snow
               4 1/5/2017
                               32
                                        4 Sunny
               5 1/6/2017
                              31
                                        2 Sunny
      In [2]: df.describe()
      Out[2]:
                    temperature windspeed
                      6.000000
                               6.000000
               count
                               4.666667
                      30.333333
                               2.338090
                      3.829708
                               2.000000
                      24.000000
                      28.750000
                               2.500000
                               5.000000
                      31.500000
                               6.750000
                      32.000000
                     35.000000 7.000000
      In [4]: df.shape
      Out[4]: (6, 4)
      In [5]: newdf = df[2:5]
              newdf
      Out[5]:
                    day temperature windspeed event
              2 1/3/2017
                                        2 Snow
                               28
              3 1/4/2017
                                        7 Snow
               4 1/5/2017
                                        4 Sunny
      In [8]: newdf = df.iloc[2:5 , :-1]
              newdf
      Out[8]:
                    day temperature windspeed
              2 1/3/2017
              3 1/4/2017
                               24
                              32
              4 1/5/2017
     In [14]: df.head(2)
     Out[14]:
                    day temperature windspeed event
                                        6 Rain
              0 1/1/2017
              1 1/2/2017
                                       7 Sunny
     In [13]: df.tail(2)
     Out[13]:
                    day temperature windspeed event
              4 1/5/2017
                                        4 Sunny
                                        2 Sunny
               5 1/6/2017
                              31
     In [15]: df.event
     Out[15]: 0 Rain
             1 Sunny
              2 Snow
              3 Snow
              4 Sunny
              5 Sunny
              Name: event, dtype: object
     In [16]: df.day
     Out[16]: 0 1/1/2017
             1 1/2/2017
             2 1/3/2017
                  1/4/2017
              4 1/5/2017
              5 1/6/2017
              Name: day, dtype: object
     In [17]: df.temperature
     Out[17]: 0 32
                 35
                   28
                  24
                  32
              5 31
              Name: temperature, dtype: int64
     In [18]: df.windspeed
     Out[18]: 0 6
              Name: windspeed, dtype: int64
     In [21]: discipline = df[["day","event"]]
              discipline
     Out[21]:
                    day event
              0 1/1/2017 Rain
               1 1/2/2017 Sunny
               2 1/3/2017 Snow
              3 1/4/2017 Snow
               4 1/5/2017 Sunny
               5 1/6/2017 Sunny
     In [31]: print(df.temperature.mean())
              print(df.temperature.median())
              print(df.temperature.memory_usage())
              print(df.temperature.std())
              print(df.temperature.max())
              print(df.temperature.min())
              30.33333333333333
              31.5
              176
              3.8297084310253524
              35
     In [39]: len(df["windspeed"])
     Out[39]: 6
     In [46]: len(df[ df['temperature'] < 30 ])</pre>
     Out[46]: 2
     In [48]: df.count()
     Out[48]: day
              temperature 6
              windspeed
              event
              dtype: int64
      In [3]: import pandas as pd
              columns = []
              data = dict()
              num = int(input("please enter the number of columns"))
              while(num > 0):
                 columns.append(input("please enter the column name: "))
                 num -=1
              for i in columns:
                 data[i] = []
              rows = int(input("please enter the number of rows: "))
              while(rows > 0):
                 for i in data:
                     value = input(f"please enter the value of {i}: ")
                     data[i].append(value)
                  rows-=1
              dataframe = pd.DataFrame(data)
              dataframe
              please enter the value of J: FJ
      Out[3]:
                  A B C D E F G H I J
              0 1 2 3 4 5 6 7 8 9 10
               1 A1 B2 C3 D4 E5 F6 G7 H8 I9 J10
               2 10 20 30 40 50 60 70 80 90 100
               3 -10 -20 -30 -40 -50 -60 -70 -80 -90 -100
               4 AA AB AC AD AE AF AG AH AI AJ
              5 BB BA BC BD BE BF BG BI BH BJ
              6 CA CB CC CD CE CF CG CH CI CJ
              7 DA DB DC DD DE DF DG DH DI DJ
              8 EA EB EC ED EF EE EG EH EI EJ
              9 FA FB FC FD FE FF FG FH FI FJ
```

In []:

Jupyter project 3 Data Entry Last Checkpoint: a minute ago (autosaved)

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