```
In [37]: ▶ import pandas
             mydataset = {
              'Person': ["Bibek", "Umang", "Piyush"],
              'Rollno': [20051722,20051836, 20051802]
             myvar = pandas.DataFrame(mydataset)
             print(myvar)
             print()
                Person
                           Rollno
             0
                 Bibek
                         20051722
             1
                 Umang
                         20051836
                Piyush 20051802
In [36]: ▶ import pandas
             data = {
              'Person': ["Bibek", "Umang", "Piyush"],
              'Roll No.': [20051722, 20051836, 20051802]
             df = pd.DataFrame(data, index = ["1", "2", "3"])
             print(df)
                Person Roll No.
             1
                 Bibek
                        20051722
             2
                        20051836
                 Umang
                         20051802
                Piyush

    import pandas as pd

 In [3]:
             df = pd.read_csv(r"B:\6th sems\T & T lab\Lab-7\data.csv")
             print(df)
             print(pd.options.display.max_rows)
                  Duration Pulse Maxpulse Calories
             0
                         60
                               110
                                         130
                                                  409.1
             1
                         60
                               117
                                         145
                                                  479.0
             2
                         60
                               103
                                         135
                                                  340.0
             3
                         45
                                         175
                                                  282.4
                               109
             4
                         45
                               117
                                         148
                                                  406.0
                        . . .
                               . . .
                                         . . .
                                                   . . .
                                                  290.8
             164
                         60
                               105
                                         140
                                         145
             165
                         60
                               110
                                                  300.0
             166
                         60
                                         145
                                                  310.2
                               115
                         75
                                         150
                                                  320.4
             167
                               120
                         75
                                                  330.4
             168
                               125
                                         150
             [169 rows x 4 columns]
             60
```

```
In [61]:
           ▶ print(df.to_string())
              5
                         60
                                102
                                          127
                                                   300.0
              6
                         60
                               110
                                          136
                                                   374.0
              7
                         45
                                104
                                          134
                                                   253.3
              8
                         30
                                109
                                          133
                                                   195.1
              9
                         60
                                98
                                          124
                                                   269.0
              10
                         60
                                103
                                          147
                                                   329.3
                         60
                                          120
                                                   250.7
              11
                               100
              12
                         60
                               106
                                          128
                                                   345.3
                         60
                                                   379.3
              13
                                104
                                          132
              14
                         60
                                98
                                          123
                                                   275.0
              15
                         60
                                98
                                          120
                                                   215.2
              16
                         60
                                100
                                          120
                                                   300.0
              17
                         45
                                90
                                          112
                                                     NaN
                         60
                                                   323.0
              18
                               103
                                          123
              19
                         45
                                97
                                          125
                                                   243.0
              20
                         60
                                108
                                          131
                                                   364.2
              21
                         45
                                100
                                          119
                                                   282.0
              22
                         60
                                          101
                                                   300.0
                                130
              23
                         45
                                105
                                          132
                                                   246.0
           | import pandas as pd
In [38]:
              df = pd.read_csv(r"B:\6th sems\T & T lab\Lab-7\data.csv")
              print(df.tail(10))
                   Duration Pulse
                                    Maxpulse Calories
              159
                         30
                                 80
                                          120
                                                   240.9
              160
                         30
                                 85
                                          120
                                                   250.4
              161
                         45
                                 90
                                          130
                                                   260.4
                         45
                                 95
                                          130
                                                   270.0
              162
                         45
              163
                                100
                                          140
                                                   280.9
              164
                         60
                                105
                                          140
                                                   290.8
              165
                         60
                                110
                                          145
                                                   300.0
              166
                         60
                                115
                                          145
                                                   310.2
              167
                         75
                                          150
                                                   320.4
                                120
                         75
                                          150
                                                   330.4
              168
                                125
 In [4]:

    print(df.info())

              <class 'pandas.core.frame.DataFrame'>
              RangeIndex: 169 entries, 0 to 168
              Data columns (total 4 columns):
                   Column
                             Non-Null Count Dtype
              ---
                              -----
              0
                   Duration 169 non-null
                                              int64
               1
                   Pulse
                             169 non-null
                                              int64
                   Maxpulse 169 non-null
                                              int64
                   Calories 164 non-null
                                              float64
              dtypes: float64(1), int64(3)
              memory usage: 5.4 KB
              None
```

```
In [5]:
             print(df.head(10))
                 Duration
                            Pulse
                                   Maxpulse
                                              Calories
             0
                       60
                              110
                                         130
                                                  409.1
             1
                              117
                                         145
                                                  479.0
                       60
             2
                       60
                              103
                                         135
                                                  340.0
             3
                       45
                                         175
                              109
                                                  282.4
             4
                       45
                                         148
                                                  406.0
                              117
             5
                       60
                              102
                                         127
                                                  300.0
             6
                       60
                              110
                                         136
                                                  374.0
             7
                       45
                              104
                                         134
                                                  253.3
             8
                       30
                              109
                                         133
                                                  195.1
             9
                       60
                               98
                                         124
                                                  269.0
             new_df = df.dropna()
In [6]:
          print(new_df.to_string())
             print()
             df.fillna(300,inplace = True)
             print(df.to_string())
             df["Calories"].fillna(300, inplace = True)
             print(df.to string())
                   Duration
                             Pulse
                                     Maxpulse
                                                 Calories
             0
                         60
                                110
                                           130
                                                    409.1
                                                    479.0
                         60
                                           145
             1
                                117
             2
                                103
                         60
                                           135
                                                    340.0
             3
                         45
                                109
                                           175
                                                    282.4
             4
                         45
                                117
                                           148
                                                    406.0
             5
                         60
                                102
                                           127
                                                    300.0
             6
                         60
                                110
                                           136
                                                    374.0
             7
                         45
                                           134
                                                    253.3
                                104
             8
                         30
                                109
                                           133
                                                    195.1
             9
                         60
                                 98
                                           124
                                                    269.0
             10
                         60
                                103
                                           147
                                                    329.3
             11
                         60
                                100
                                           120
                                                    250.7
             12
                         60
                                           128
                                                    345.3
                                106
             13
                         60
                                104
                                           132
                                                    379.3
             14
                         60
                                 98
                                           123
                                                    275.0
             15
                         60
                                 98
                                           120
                                                    215.2
             16
                         60
                                100
                                           120
                                                    300.0
             18
                         60
                                103
                                           123
                                                    323.0
             10
                                           125
                                                    242 2
In [8]:
          x = df["Calories"].mean()
             df["Calories"].fillna(x, inplace = True)
             print(df.to_string())
                   Duration
                              Pulse
                                      Maxpulse
                                                 Calories
             0
                         60
                                           130
                                                    409.1
                                110
             1
                                           145
                                                    479.0
                         60
                                117
             2
                         60
                                103
                                           135
                                                    340.0
             3
                         45
                                109
                                           175
                                                    282.4
             4
                         45
                                           148
                                                    406.0
                                117
             5
                         60
                                102
                                           127
                                                    300.0
             6
                         60
                                           136
                                                    374.0
                                110
             7
                         45
                                           134
                                104
                                                    253.3
             8
                         30
                                109
                                           133
                                                    195.1
             9
                         60
                                 98
                                           124
                                                    269.0
             10
                         60
                                103
                                           147
                                                    329.3
             11
                         60
                                100
                                           120
                                                    250.7
                                           128
             12
                         60
                                106
                                                    345.3
             13
                         60
                                104
                                           132
                                                    379.3
             14
                         60
                                 98
                                           123
                                                    275.0
             15
                         60
                                 98
                                           120
                                                    215.2
                         60
             16
                                100
                                           120
                                                    300.0
                         45
                                                    300.0
             17
                                 90
                                           112
```

```
    | x = df["Calories"].median()

In [7]:
             df["Calories"].fillna(x, inplace = True)
             print(df.to_string())
             85
                          30
                                           170
                                                    300.0
             86
                          45
                                102
                                           136
                                                    234.0
             87
                        120
                                                   1000.1
                                100
                                           157
             88
                          45
                                129
                                           103
                                                    242.0
             89
                          20
                                           107
                                 83
                                                     50.3
                                                    600.1
             90
                         180
                                101
                                           127
             91
                          45
                                107
                                           137
                                                    300.0
             92
                          30
                                 90
                                           107
                                                    105.3
             93
                          15
                                 80
                                           100
                                                     50.5
             94
                          20
                                150
                                           171
                                                    127.4
             95
                          20
                                151
                                           168
                                                    229.4
             96
                          30
                                 95
                                           128
                                                    128.2
             97
                          25
                                152
                                           168
                                                    244.2
             98
                          30
                                109
                                           131
                                                    188.2
             99
                          90
                                 93
                                           124
                                                    604.1
             100
                          20
                                 95
                                           112
                                                     77.7
             101
                          90
                                 90
                                           110
                                                    500.0
                          90
                                 90
                                                    500.0
             102
                                           100
                          90
                                 90
                                           100
                                                    500.4
             103
             104
                          30
                                 92
                                           108
                                                     92.7
In [9]:
          M x = df["Calories"].mode()[0]
             df["Calories"].fillna(x, inplace = True)
             print(df.to_string())
                   Duration
                              Pulse
                                     Maxpulse
                                                 Calories
             0
                          60
                                110
                                           130
                                                    409.1
             1
                          60
                                117
                                           145
                                                    479.0
             2
                          60
                                           135
                                                    340.0
                                103
             3
                          45
                                109
                                           175
                                                    282.4
                                                    406.0
                                117
             4
                          45
                                           148
             5
                          60
                                102
                                           127
                                                    300.0
             6
                          60
                                110
                                           136
                                                    374.0
             7
                          45
                                104
                                           134
                                                    253.3
             8
                          30
                                           133
                                109
                                                    195.1
             9
                          60
                                 98
                                           124
                                                    269.0
             10
                          60
                                103
                                           147
                                                    329.3
             11
                          60
                                100
                                           120
                                                    250.7
             12
                          60
                                106
                                           128
                                                    345.3
             13
                          60
                                104
                                           132
                                                    379.3
             14
                                 98
                          60
                                           123
                                                    275.0
             15
                          60
                                 98
                                           120
                                                    215.2
             16
                          60
                                           120
                                100
                                                    300.0
                          45
                                                    300.0
             17
                                 90
                                           112
```

	Duration	Pulse	Maxpulse	Calories	Date
0	60	110	130	409.1	01-12-2020
1	60	117	145	479.0	02-12-2020
2	60	103	135	340.0	03-12-2020
3	45	109	175	282.4	04-12-2020
4	45	117	148	406.0	05-12-2020
5	60	102	127	300.0	06-12-2020
6	60	110	136	374.0	07-12-2020
7	45	104	134	253.3	08-12-2020
8	30	109	133	195.1	09-12-2020
9	60	98	124	269.0	10-12-2020
10	60	103	147	329.3	11-12-2020
11	60	100	120	250.7	12-12-2020
12	60	106	128	345.3	13-12-2020
13	60	104	132	379.3	14-12-2020
14	60	98	123	275.0	15-12-2020
15	60	98	120	215.2	16-12-2020
16	60	100	120	300.0	17-12-2020
17	45	90	112	300.0	18-12-2020
18	60	103	123	323.0	19-12-2020
19	45	97	125	243.0	20-12-2020
20	60	108	131	364.2	21-12-2020
21	45	100	119	282.0	22-12-2020
22	60	130	101	300.0	23-12-2020
23	45	105	132	246.0	24-12-2020
24	60	102	126	334.5	25-12-2020
25	60	100	120	250.0	26-12-2020
26	60	92	118	241.0	27-12-2020
27	60	103	132	300.0	28-12-2020
28	60	100	132	280.0	29-12-2020
29	60	102	129	380.3	30-12-2020

```
In [54]:  M df['Date'] = pd.to_datetime(df['Date'])
print(df.to_string())
```

	Duration	Pulse	Maxpulse	Calories	Date
0	60	110	130	409.1	2020-01-12
1	60	117	145	479.0	2020-02-12
2	60	103	135	340.0	2020-03-12
3	45	109	<b>17</b> 5	282.4	2020-04-12
4	45	117	148	406.0	2020-05-12
5	60	102	127	300.0	2020-06-12
6	60	110	136	374.0	2020-07-12
7	45	104	134	253.3	2020-08-12
8	30	109	133	195.1	2020-09-12
9	60	98	124	269.0	2020-10-12
10	60	103	147	329.3	2020-11-12
11	60	100	120	250.7	2020-12-12
12	60	106	128	345.3	2020-12-13
13	60	104	132	379.3	2020-12-14
14	60	98	123	275.0	2020-12-15
15	60	98	120	215.2	2020-12-16
16	60	100	120	300.0	2020-12-17
17	45	90	112	NaN	2020-12-18
18	60	103	123	323.0	2020-12-19
19	45	97	125	243.0	2020-12-20
20	60	108	131	364.2	2020-12-21
21	45	100	<b>11</b> 9	282.0	2020-12-22
22	60	130	101	300.0	2020-12-23
23	45	105	132	246.0	2020-12-24
24	60	102	126	334.5	2020-12-25
25	60	100	120	250.0	2020-12-26
26	60	92	118	241.0	2020-12-27
27	60	103	132	NaN	2020-12-28
28	60	100	132	280.0	2020-12-29
29	60	102	129	380.3	2020-12-30

	Duration	Pulse	Maxpulse	Calories	Date
0	60	110	130	409.1	01-12-2020
1	60	117	<b>1</b> 45	479.0	02-12-2020
2	60	103	135	340.0	03-12-2020
3	45	109	<b>1</b> 75	282.4	04-12-2020
4	45	117	148	406.0	05-12-2020
5	60	102	127	300.0	06-12-2020
6	60	110	<b>1</b> 36	374.0	07-12-2020
7	45	104	134	253.3	08-12-2020
8	30	109	<b>1</b> 33	195.1	09-12-2020
9	60	98	124	269.0	10-12-2020
10	60	103	147	329.3	11-12-2020
11	60	100	120	250.7	12-12-2020
12	60	106	128	345.3	13-12-2020
13	60	104	132	379.3	14-12-2020
14	60	98	123	275.0	15-12-2020
15	60	98	120	215.2	16-12-2020
16	60	100	120	300.0	17-12-2020
17	45	90	112	NaN	18-12-2020
18	60	103	123	323.0	19-12-2020
19	45	97	125	243.0	20-12-2020
20	60	108	131	364.2	21-12-2020
21	45	100	119	282.0	22-12-2020
22	60	130	101	300.0	23-12-2020
23	45	105	132	246.0	24-12-2020
24	60	102	126	334.5	25-12-2020
25	60	100	120	250.0	26-12-2020
26	60	92	118	241.0	27-12-2020
27	60	103	132	NaN	28-12-2020
28	60	100	132	280.0	29-12-2020
29	60	102	129	380.3	30-12-2020

```
Duration Pulse Maxpulse
                               Calories
                                                 Date
0
                110
                                   409.1 01-12-2020
          60
                           130
                                   479.0 02-12-2020
1
          60
                117
                           145
2
          60
                103
                           135
                                   340.0 03-12-2020
3
          45
                109
                           175
                                   282.4 04-12-2020
4
          45
                                   406.0 05-12-2020
                117
                           148
5
          60
                102
                           127
                                   300.0 06-12-2020
6
          60
                110
                           136
                                   374.0 07-12-2020
7
          45
                104
                           134
                                   253.3 08-12-2020
8
          30
                109
                           133
                                   195.1 09-12-2020
9
          60
                 98
                                   269.0 10-12-2020
                           124
10
          60
                103
                           147
                                   329.3 11-12-2020
11
          60
                100
                           120
                                   250.7
                                          12-12-2020
12
          60
                106
                           128
                                   345.3 13-12-2020
13
          60
                104
                           132
                                   379.3
                                          14-12-2020
                                   275.0
14
          60
                 98
                           123
                                          15-12-2020
15
          60
                 98
                           120
                                   215.2
                                          16-12-2020
16
          60
                100
                           120
                                   300.0
                                          17-12-2020
18
          60
                103
                           123
                                   323.0
                                          19-12-2020
19
          45
                 97
                           125
                                   243.0
                                          20-12-2020
20
          60
                108
                           131
                                   364.2
                                          21-12-2020
                                   282.0
21
          45
                100
                           119
                                          22-12-2020
22
          60
                130
                           101
                                   300.0 23-12-2020
23
          45
                105
                           132
                                   246.0 24-12-2020
24
                102
                           126
                                   334.5 25-12-2020
          60
25
          60
                100
                           120
                                   250.0 26-12-2020
26
          60
                 92
                           118
                                   241.0 27-12-2020
28
          60
                100
                           132
                                   280.0 29-12-2020
29
          60
                102
                           129
                                   380.3 30-12-2020
```

	Duration	Pulse	Maxpulse	Calories	Date
0	60	110	130	409.1	01-12-2020
1	60	117	145	479.0	02-12-2020
2	60	103	<b>1</b> 35	340.0	03-12-2020
3	45	109	175	282.4	04-12-2020
4	45	117	148	406.0	05-12-2020
5	60	102	127	300.0	06-12-2020
6	60	110	136	374.0	07-12-2020
7	45	104	134	253.3	08-12-2020
8	30	109	133	195.1	09-12-2020
9	60	98	124	269.0	10-12-2020
10	60	103	147	329.3	11-12-2020
11	60	100	120	250.7	12-12-2020
12	60	106	128	345.3	13-12-2020
13	60	104	132	379.3	14-12-2020
14	60	98	123	275.0	15-12-2020
15	60	98	120	215.2	16-12-2020
16	60	100	120	300.0	17-12-2020
18	60	103	123	323.0	19-12-2020
19	45	97	125	243.0	20-12-2020
20	60	108	131	364.2	21-12-2020
21	45	100	<b>11</b> 9	282.0	22-12-2020
22	60	130	101	300.0	23-12-2020
23	45	105	132	246.0	24-12-2020
24	60	102	126	334.5	25-12-2020
25	60	100	120	250.0	26-12-2020
26	60	92	118	241.0	27-12-2020
28	60	100	132	280.0	29-12-2020
29	60	102	129	380.3	30-12-2020

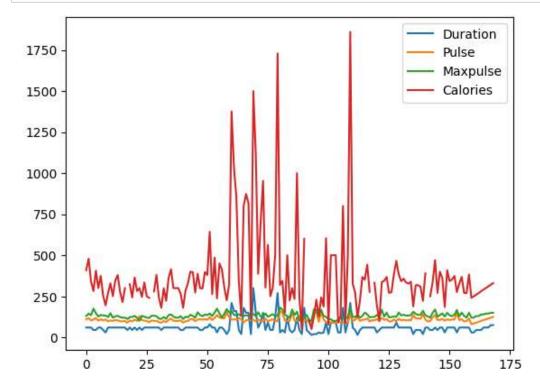
```
In [14]:  M df.fillna(230, inplace = True)
print(df.to_string())
```

	Duration	Pulse	Maxpulse	Calories	Date
0	60	110	130	409.1	01-12-2020
1	60	117	145	479.0	02-12-2020
2	60	103	135	340.0	03-12-2020
3	45	109	<b>17</b> 5	282.4	04-12-2020
4	45	117	148	406.0	05-12-2020
5	60	102	127	300.0	06-12-2020
6	60	110	136	374.0	07-12-2020
7	45	104	134	253.3	08-12-2020
8	30	109	133	195.1	09-12-2020
9	60	98	124	269.0	10-12-2020
10	60	<b>10</b> 3	147	329.3	11-12-2020
11	60	100	120	250.7	12-12-2020
12	60	106	128	345.3	13-12-2020
13	60	104	132	379.3	14-12-2020
14	60	98	123	275.0	15-12-2020
15	60	98	120	215.2	16-12-2020
16	60	100	120	300.0	17-12-2020
18	60	103	123	323.0	19-12-2020
19	45	97	125	243.0	20-12-2020
20	60	108	131	364.2	21-12-2020
21	45	100	119	282.0	22-12-2020
22	60	130	101	300.0	23-12-2020
23	45	105	132	246.0	24-12-2020
24	60	102	126	334.5	25-12-2020
25	60	100	120	250.0	26-12-2020
26	60	92	118	241.0	27-12-2020
28	60	100	132	280.0	29-12-2020
29	60	102	129	380.3	30-12-2020

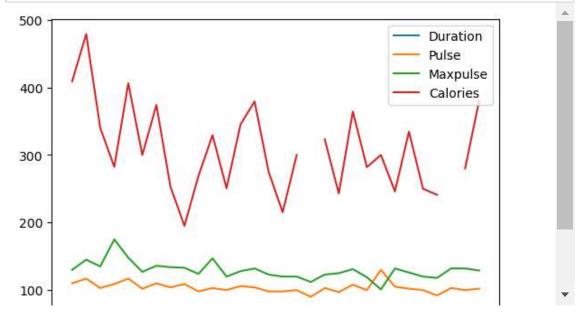
## In [15]: M df["Calories"].fillna(230, inplace = True) print(df.to\_string())

	Duration	Pulse	Maxpulse	Calories	Date
0	60	110	130	409.1	01-12-2020
1	60	117	145	479.0	02-12-2020
2	60	103	135	340.0	03-12-2020
3	45	109	175	282.4	04-12-2020
4	45	117	148	406.0	05-12-2020
5	60	102	127	300.0	06-12-2020
6	60	110	136	374.0	07-12-2020
7	45	104	134	253.3	08-12-2020
8	30	109	133	195.1	09-12-2020
9	60	98	124	269.0	10-12-2020
10	60	103	147	329.3	11-12-2020
11	60	100	120	250.7	12-12-2020
12	60	106	128	345.3	13-12-2020
13	60	104	132	379.3	14-12-2020
14	60	98	123	275.0	15-12-2020
15	60	98	120	215.2	16-12-2020
16	60	100	120	300.0	17-12-2020
18	60	103	123	323.0	19-12-2020
19	45	97	125	243.0	20-12-2020
20	60	108	131	364.2	21-12-2020
21	45	100	<b>11</b> 9	282.0	22-12-2020
22	60	130	101	300.0	23-12-2020
23	45	105	132	246.0	24-12-2020
24	60	102	126	334.5	25-12-2020
25	60	100	120	250.0	26-12-2020
26	60	92	118	241.0	27-12-2020
28	60	100	132	280.0	29-12-2020
29	60	102	129	380.3	30-12-2020

```
H
              df.loc[7, 'Duration'] = 50
In [16]:
              print(df)
                  Duration
                             Pulse Maxpulse
                                               Calories
                                                                 Date
              0
                               110
                                                   409.1 01-12-2020
                         60
                                          130
                         60
                               117
                                                   479.0
              1
                                          145
                                                          02-12-2020
              2
                         60
                               103
                                          135
                                                   340.0 03-12-2020
              3
                         45
                               109
                                                   282.4 04-12-2020
                                          175
              4
                         45
                                                   406.0 05-12-2020
                               117
                                          148
              5
                         60
                               102
                                          127
                                                   300.0 06-12-2020
              6
                         60
                               110
                                          136
                                                   374.0 07-12-2020
              7
                         50
                               104
                                          134
                                                   253.3
                                                          08-12-2020
              8
                         30
                               109
                                                   195.1
                                                          09-12-2020
                                          133
              9
                                                   269.0 10-12-2020
                         60
                                98
                                          124
              10
                         60
                               103
                                          147
                                                   329.3
                                                          11-12-2020
              11
                         60
                               100
                                          120
                                                   250.7
                                                          12-12-2020
                                                          13-12-2020
              12
                         60
                               106
                                          128
                                                   345.3
              13
                               104
                                                   379.3
                                                          14-12-2020
                         60
                                          132
                                                   275.0
              14
                         60
                                98
                                          123
                                                          15-12-2020
              15
                                98
                                                   215.2
                         60
                                          120
                                                          16-12-2020
              16
                         60
                               100
                                          120
                                                   300.0
                                                          17-12-2020
              18
                         60
                               103
                                          123
                                                   323.0
                                                          19-12-2020
              19
                         45
                                97
                                          125
                                                   243.0
                                                          20-12-2020
              20
                         60
                               108
                                          131
                                                   364.2
                                                          21-12-2020
              21
                         45
                               100
                                          119
                                                   282.0
                                                          22-12-2020
              22
                         60
                               130
                                          101
                                                   300.0
                                                          23-12-2020
                                                          24-12-2020
              23
                         45
                               105
                                          132
                                                   246.0
                               102
              24
                         60
                                          126
                                                   334.5
                                                          25-12-2020
              25
                         60
                               100
                                          120
                                                   250.0
                                                          26-12-2020
              26
                         60
                                92
                                          118
                                                   241.0
                                                          27-12-2020
              28
                         60
                               100
                                          132
                                                   280.0
                                                          29-12-2020
              29
                         60
                               102
                                          129
                                                   380.3
                                                          30-12-2020
In [47]:
              import pandas as pd
              df = pd.read_csv(r"B:\6th sems\T & T lab\Lab-7\data.csv")
              for x in df.index:
                  if df.loc[x, "Duration"] > 120:
                      df.loc[x, "Duration"] = 120
              print(df.to_string())
                   Duration
                              Pulse
                                     Maxpulse
                                                Calories
              0
                                           130
                                                    409.1
                          60
                                110
              1
                                           145
                                                    479.0
                          60
                                117
              2
                          60
                                103
                                           135
                                                    340.0
              3
                          45
                                109
                                           175
                                                    282.4
              4
                          45
                                117
                                           148
                                                    406.0
              5
                          60
                                                    300.0
                                102
                                           127
              6
                          60
                                110
                                           136
                                                    374.0
              7
                          45
                                104
                                           134
                                                    253.3
              8
                          30
                                109
                                           133
                                                    195.1
              9
                          60
                                 98
                                           124
                                                    269.0
              10
                          60
                                103
                                           147
                                                    329.3
              11
                          60
                                100
                                           120
                                                    250.7
              12
                          60
                                106
                                           128
                                                    345.3
              13
                          60
                                104
                                           132
                                                    379.3
              14
                                                    275.0
                          60
                                 98
                                           123
              15
                          60
                                 98
                                           120
                                                    215.2
                          60
                                                    300.0
              16
                                100
                                           120
              17
                          45
                                 90
                                           112
                                                      NaN
```

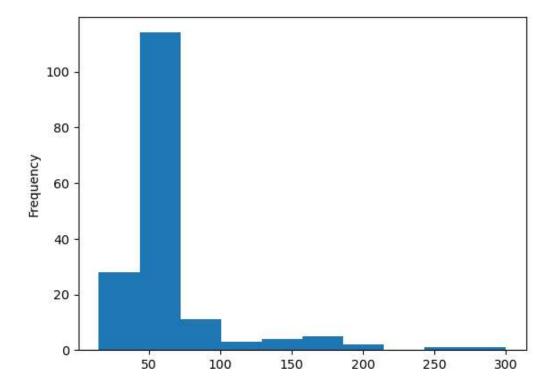






```
In [20]:
             df = pd.read_csv(r'B:\6th sems\T & T lab\Lab-7\data.csv')
             df.plot(kind = 'scatter', x = 'Duration', y = 'Calories')
             plt.show()
                 1750
                 1500
                 1250
              Calories
                 1000
                   750
                  500
                  250 -
In [21]:
             df = pd.read_csv(r'B:\6th sems\T & T lab\Lab-7\data1.csv')
             df.plot(kind = 'scatter', x = 'Duration', y = 'Calories')
             plt.show()
                 450
                 400
                 350
                 300
                 250
                 200
                                  35
                                            40
                                                      45
                                                                50
                                                                           55
                                                                                     60
                        30
                                                   Duration
```

Out[22]: <AxesSubplot:ylabel='Frequency'>



Out[23]: <AxesSubplot:ylabel='Frequency'>

