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In [1]: import pandas as pd

In [2]: temps = {'Mon':[68, 89], 'Tue':[71, 93], 'Wed':[66, 82], 'Thu':[75, 97], 'Fr':[62, 79]}
temperatures = pd.DataFrame(temps, index=['Low', 'High'])
print(temperatures)

      Mon  Tue  Wed  Thu  Fr
Low    68   71   66   75   62
High   89   93   82   97   79

In [3]: selected_columns = temperatures[['Mon', 'Tue', 'Wed']]
print(selected_columns)

      Mon  Tue  Wed
Low    68   71   66
High   89   93   82

In [4]: low_temperatures = temperatures.loc['Low']
print(low_temperatures)

Mon    68
Tue    71
Wed    66
Thu    75
Fr     62
Name: Low, dtype: int64

In [5]: pd.options.display.float_format = "{:.2f}".format
average_temperatures = temperatures.mean()
print(average_temperatures)

Mon    78.50
Tue    82.00
Wed    74.00
Thu    86.00
Fr     70.50
dtype: float64

In [6]: temperatures

Out[6]:
```

	Mon	Tue	Wed	Thu	Fr
Low	68	71	66	75	62
High	89	93	82	97	79

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In [7]: average_low = temperatures.loc['Low'].mean()
average_high = temperatures.loc['High'].mean()
print(f"Average Low Temperature: {average_low:.2f}")
print(f"Average High Temperature: {average_high:.2f}")

Average Low Temperature: 68.40
Average High Temperature: 88.00

Average temp for Wed to Fri

In [8]: pd.options.display.float_format = "{:.1f}".format
wed_to_fri = temperatures.loc[:, 'Wed': 'Fr']
average_temps = wed_to_fri.mean(axis=1).round(1)
average_temps

Out[8]: Low    67.7
High    86.0
dtype: float64

Calculate the median high temperatures

In [9]: temperatures.loc['High'].median()

Out[9]: np.float64(89.0)

Use the column names to select only the columns for 'Friday' only

In [10]: temperatures['Fr']

Out[10]: Low    62
High    79
Name: Fr, dtype: int64

Use the row at index number 4 to select only the low temperatures for each day.

In [11]: temperatures

Out[11]:
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	Mon	Tue	Wed	Thu	Fr
Low	68	71	66	75	62
High	89	93	82	97	79

```


In [12]: low_temps = temperatures.iloc[0]

In [13]: low_temps

Out[13]: Mon    68
Tue    71
Wed    66
Thu    75
```

```
Fr      62
Name: Low, dtype: int64
```

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In [ ]:
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