In [ ]:
```
# Initialize Otter
import otter
grader = otter.Notebook("assignment3.ipynb")
```

1 Otter-Grader Tutorial

This notebook is part of the Otter-Grader tutorial. For more information about Otter, see our documentation.

In [1]:
```
import pandas as pd
import numpy as np
%matplotlib inline
import otter
grader = otter.Notebook()
```

Question 3: Create a DataFrame mirroring the table below and assign this to `data`. Then group by the `flavor` column and find the mean price for each flavor; assign this **series** to `price_by_flavor`.

flavor	scoops	price
chocolate	1	2
vanilla	1	1.5
chocolate	2	3
strawberry	1	2
strawberry	3	4
vanilla	2	2
mint	1	4
mint	2	5
chocolate	3	5

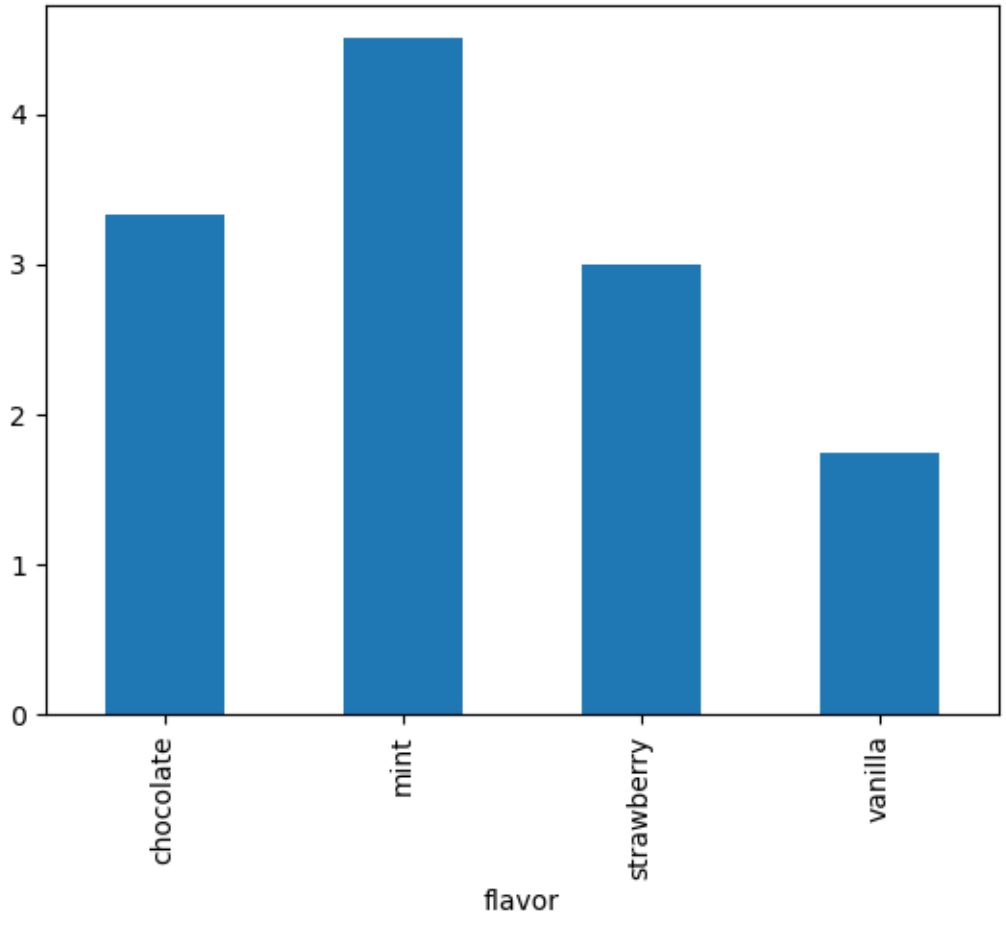
In [2]:
```
# BEGIN SOLUTION NO PROMPT
data = pd.DataFrame({
    "flavor": ["chocolate", "vanilla", "chocolate", "strawberry", "strawberry", "vanilla", "min
               "mint", "chocolate"],
    "scoops": [1, 1, 2, 1, 3, 2, 1, 2, 3],
    "price": [2, 1.5, 3, 2, 4, 2, 4, 5, 5]
})
price_by_flavor = data.groupby("flavor").mean()["price"]
# END SOLUTION
""" # BEGIN PROMPT
data = ...
price_by_flavor = ...
""" # END PROMPT
price_by_flavor
```

```
Out[2]: flavor
        chocolate     3.333333
        mint          4.500000
        strawberry    3.000000
        vanilla       1.750000
        Name: price, dtype: float64
```

```
In [ ]: grader.check("q3")
```

Question 4: Create a barplot of `price_by_flavor`.

```
In [11]: price_by_flavor.plot.bar(); # SOLUTION
```



Question 5: What do you notice about the bar plot?

Type your answer here, replacing this text.

SOLUTION: mint is the highest…?

1.1 Submission

Make sure you have run all cells in your notebook in order before running the cell below, so that all images/graphs appear in the output. The cell below will generate a zip file for you to submit. **Please save before exporting!**

These are some submission instructions.

In [ ]:
```
# Save your notebook first, then run this cell to export your submission.
grader.export(run_tests=True)
```