# Testing my PyCharm -> Jupyter Notebook -> GitHub Connection

Hi there! My name is Casey, I'm half way through the Data Analytics & Policy program at Johns Hopkins.

In [1]:
```python
1 + 1
```

Out[1]: 2

In [2]:
```python
import pandas as pd
import numpy as np
import matplotlib.pyplot as plt
```

In [11]:
```python
a = 3
b = 4
a + b
```

Out[11]: 7

In [12]:
```python
a * b
```

Out[12]: 12
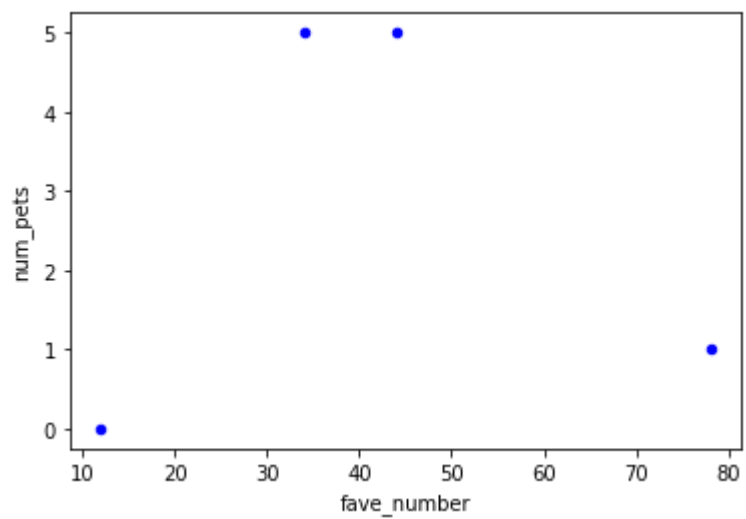
In [13]:
```python
a - b
```
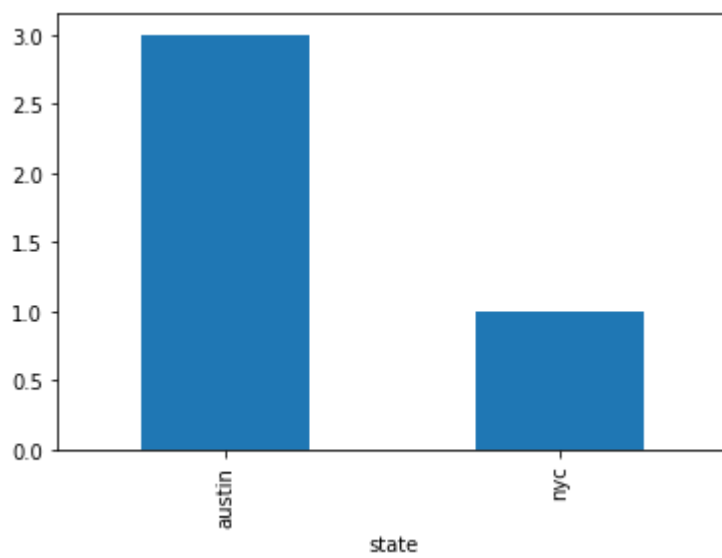
Out[13]: -1

In [6]:
```python
df = pd.DataFrame({
    'bestfriends':['hannah','taylor','ben','molly'],
    'age':[31, 29, 32, 30],
    'gender':['F','M','M','F'],
    'state':['austin', 'nyc', 'austin', 'austin'],
    'fave_number':[34,78,12,44],
    'num_pets':[5,1,0,5]
})
```

In [7]:
```python
df.plot(kind='scatter', x='fave_number', y='num_pets', color='blue')
plt.show()
```

In [8]:
```python
df.groupby('state')['bestfriends'].nunique().plot(kind='bar')
plt.show()
```



In [ ]: