In [2]:

```
import numpy as np
```

In [3]:

```
import pandas as pd
```

In [ ]:

```
# latency before index
```

In [16]:

```
data = {'threads': [1, 10, 100, 1000], 'latency': [270.09, 1050, 1440, 1530]}
```

In [17]:

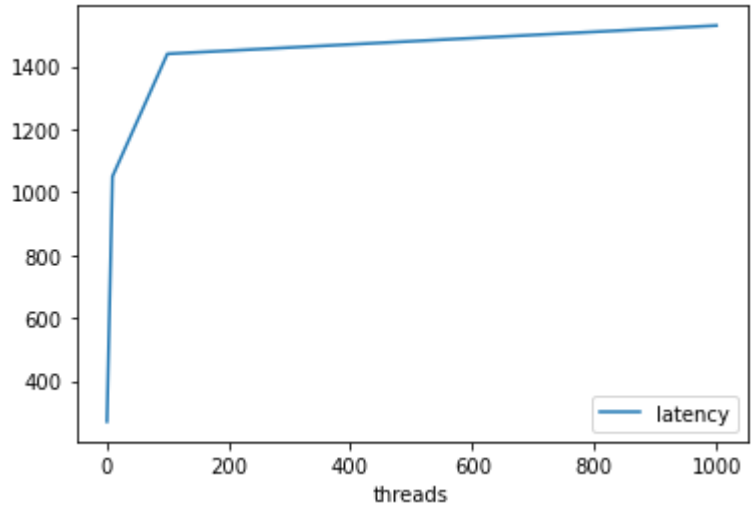
```
df = pd.DataFrame(data=data)
```

In [18]:

```
df.plot(x='threads', y='latency')
```

Out[18]:

<AxesSubplot:xlabel='threads'>



In [7]:

```
# throughput before index
```

In [10]:

```
data = {'threads': [1, 10, 100, 1000], 'throughput': [3.62, 15.40, 10.58, 8.37]}
```

In [11]:

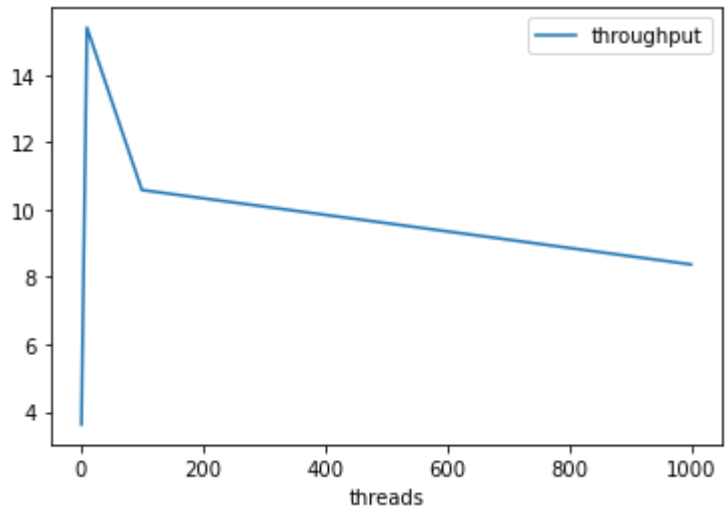
```
df = pd.DataFrame(data=data)
```

In [12]:

```
df.plot(x='threads', y='throughput')
```

Out[12]:

```
<AxesSubplot:xlabel='threads'>
```



In [ ]:

```
# latency after index
```

In [13]:

```
data = {'threads': [1, 10, 100, 1000], 'latency': [7.24, 23.45, 236.92, 1200]}
```

In [14]:

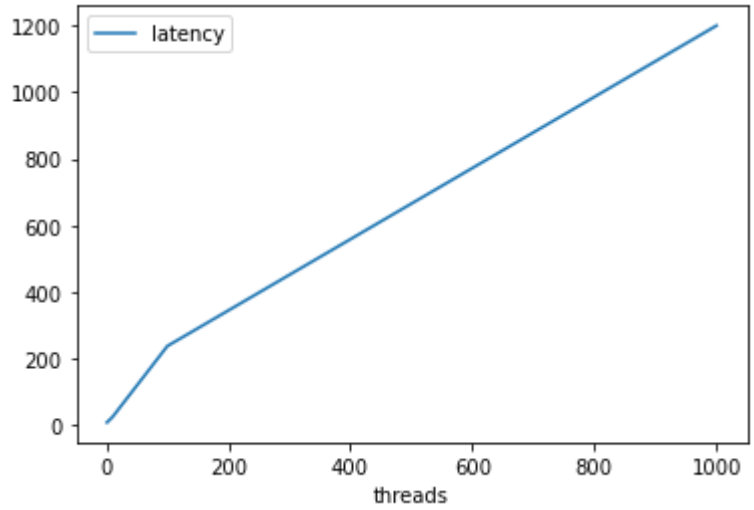
```
df = pd.DataFrame(data=data)
```

In [15]:

```
df.plot(x='threads', y='latency')
```

Out[15]:

```
<AxesSubplot:xlabel='threads'>
```



In [ ]:

```
# throughput after index
```

In [19]:

```
data = {'threads': [1, 10, 100, 1000], 'throughput': [139.15, 429.99, 418.91, 433.3
```

In [20]:

```
df = pd.DataFrame(data=data)
```

In [22]:

```
df.plot(x='threads', y='throughput')
```

Out[22]:

```
<AxesSubplot:xlabel='threads'>
```