In [1]:
```
list1 = ['physich', 'chemistry', 100, 134]
```

In [2]:
```
list1
```

Out[2]:
```
['physich', 'chemistry', 100, 134]
```

In [3]:
```
import numpy as np
import pandas as pd
```

In [4]:
```
a = np.array([12, 15,8])
```

In [5]:
```
a
```

Out[5]:
```
array([12, 15,  8])
```

In [6]:
```
print(a)
```

```
[12 15  8]
```

In [7]:
```
b = np.arange(10)
print(b)
```

```
[0 1 2 3 4 5 6 7 8 9]
```

In [8]:
```
b = np.arange(10,dtype = float)
print(b)
```

```
[ 0.  1.  2.  3.  4.  5.  6.  7.  8.  9.]
```

In [9]:
```
np.arange(5,12,2)
```

Out[9]:
```
array([ 5,  7,  9, 11])
```

In [10]:
```
np.zeros(6)
```

Out[10]:
```
array([ 0.,  0.,  0.,  0.,  0.,  0.])
```

In [11]:
```
np.ones(5)
```

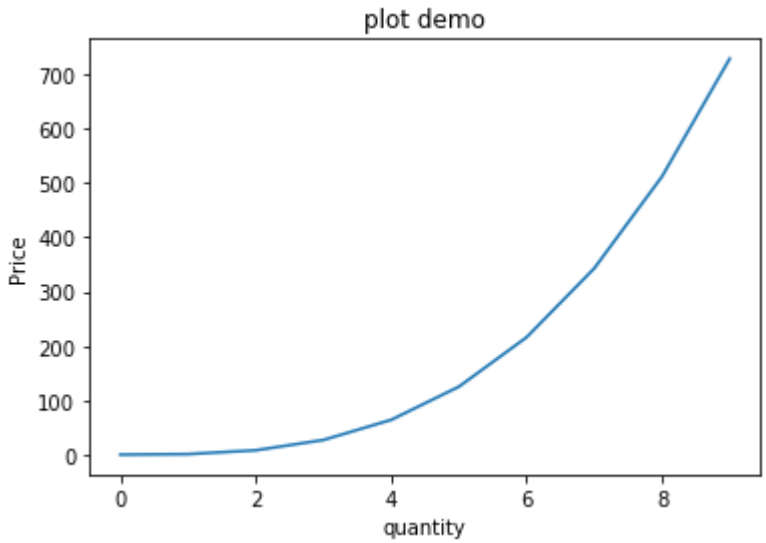
Out[11]:
```
array([ 1.,  1.,  1.,  1.,  1.])
```

In [12]:
```
b[:3]
```

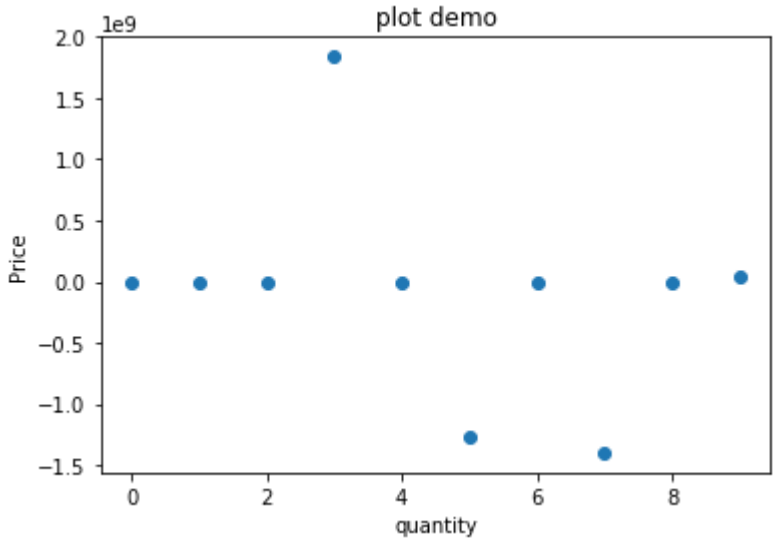
Out[12]:
```
array([ 0.,  1.,  2.])
```

In [13]:
```
import matplotlib.pyplot as plt
```

In [14]:
```
x = np.arange(10)
y = x**3
plt.title("plot demo")
plt.xlabel("quantity")
plt.ylabel("Price")
plt.plot(x,y)
plt.show()
```



In [15]:
```
x = np.arange(10)
y = x**101
plt.title("plot demo")
plt.xlabel("quantity")
plt.ylabel("Price")
plt.scatter(x,y)
plt.show()
```



In [16]:
```
x = np.arange(10)
y = x**666
plt.title("plot demo")
plt.xlabel("quantity")
plt.ylabel("Price")
plt.bar(x,y, color = 'pink')
plt.show()
```