In [1]:

```
import pandas as pd
```

In [3]:

```
import matplotlib.pyplot as plt
```

In [4]:

```
%matplotlib inline
```

In [5]:

```
data = pd.read_csv("data.csv")
```

In [6]:

```
data.head()
```

Out[6]:

	banana	apple	coconut	year
0	1000	1000	2000	2017
1	3000	2000	3000	2018
2	5000	3000	4000	2019
3	6000	4000	2500	2020
4	3400	2300	6000	2021

In [7]:

```
data.shape
```

Out[7]:

```
(6, 4)
```

In [8]:

```
data.isnull().suma
```

Out[8]:

```
<bound method DataFrame.sum of    banana  apple  coconut   year
0   False  False    False  False
1   False  False    False  False
2   False  False    False  False
3   False  False    False  False
4   False  False    False  False
5   False  False    False  False>
```

In [9]:

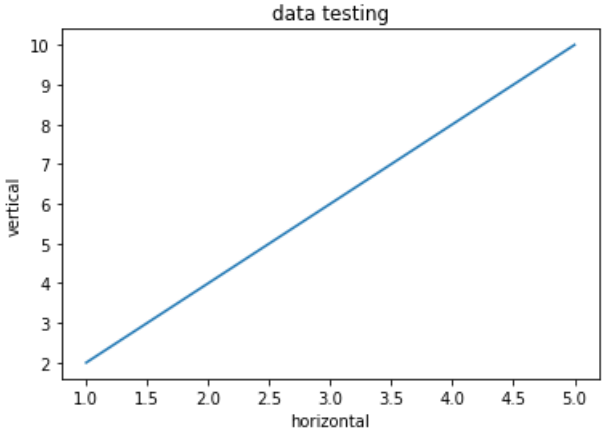
```
data.dtypes
```

Out[9]:

```
banana     int64
apple      int64
coconut    int64
year       int64
dtype: object
```

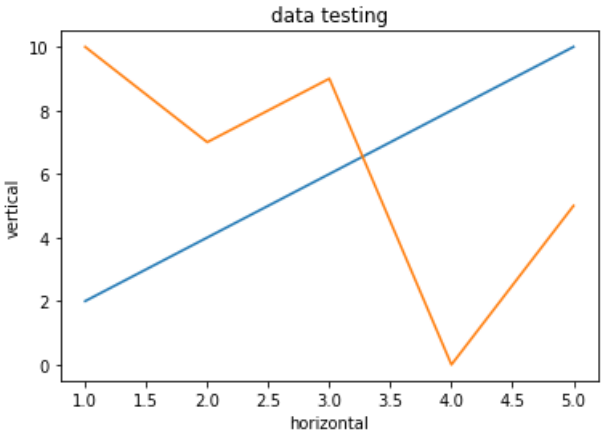
In [11]:

```
x = [1, 2, 3, 4, 5]
y = [2, 4, 6, 8, 10]
plt.plot(x, y)
plt.xlabel("horizontal")
plt.ylabel("vertical")
plt.title("data testing")
plt.show()
```



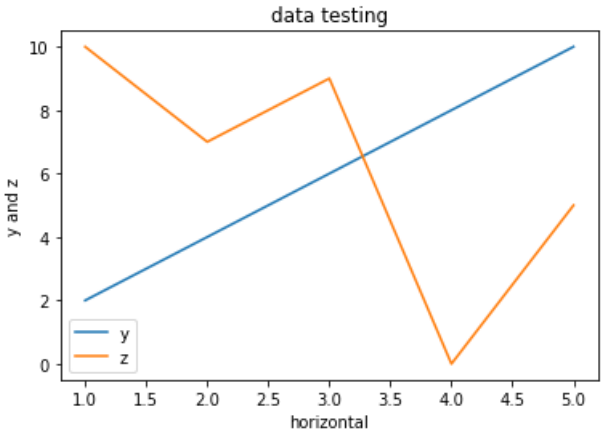
In [12]:

```
x = [1, 2, 3, 4, 5]
y = [2, 4, 6, 8, 10]
z = [10, 7, 9, 0, 5]
plt.plot(x, y)
plt.plot(x, z)
plt.xlabel("horizontal")
plt.ylabel("vertical")
plt.title("data testing")
plt.show()
```



In [13]:

```
x = [1, 2, 3, 4, 5]
y = [2, 4, 6, 8, 10]
z = [10, 7, 9, 0, 5]
plt.plot(x, y)
plt.plot(x, z)
plt.xlabel("horizontal")
plt.ylabel("y and z")
plt.title("data testing")
plt.legend(['y', 'z'])
plt.show()
```

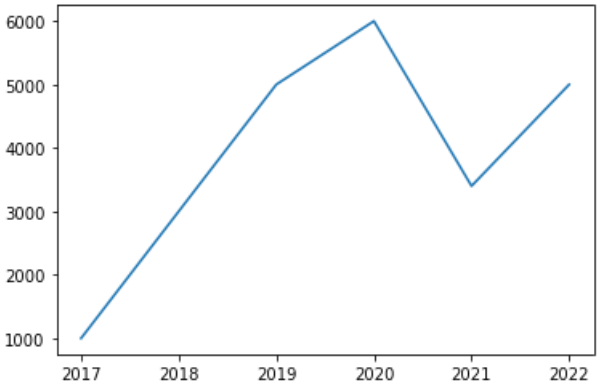


In [16]:

```
x = data.year
y = data.banana
z = data.apple
v = data.coconut
plt.plot(x, y)
```

Out[16]:

```
[<matplotlib.lines.Line2D at 0x1f2ab598820>]
```

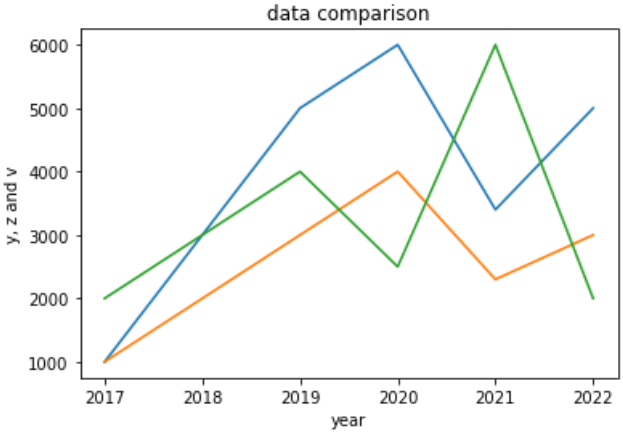


In [18]:

```
x = data.year
y = data.banana
z = data.apple
v = data.coconut
plt.plot(x, y)
plt.plot(x, z)
plt.plot(x, v)
plt.title("data comparison")
plt.xlabel('year')
plt.ylabel('y, z and v')
```

Out[18]:

```
Text(0, 0.5, 'y, z and v')
```



In [20]:

```
x = data.year
y = data.banana
z = data.apple
v = data.coconut
plt.plot(x, y)
plt.plot(x, z)
plt.plot(x, v)
plt.title("data comparison")
plt.xlabel('year')
plt.ylabel('y, z and v')
plt.legend(["y", "z", "v"])
plt.show()
```


data comparison
y
z
v
6000
5000
4000
3000
2000
1000
y, z and v
2017
2018
2019
2020
2021
2022
year

In [ ]: