

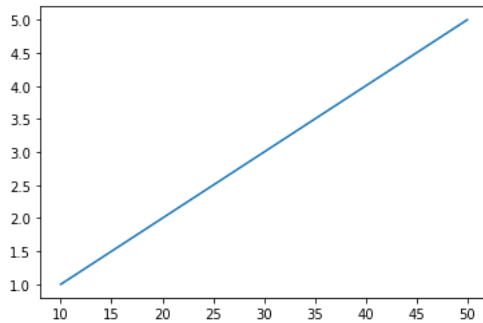
In [20]:

```
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

In [21]:

```
dataX = [10,20,30,40,50]
dataY = [1,2,3,4,5]

plt.plot(dataX,dataY)
plt.show()
```



In [22]:

```
data = pd.read_csv('D:\\Data_siswa_unp.csv')
data.head()
```

Out[22]:

	Jurusan	Jumlah
0	TI	1000
1	SI	800
2	AK	1100
3	TE	500
4	MJ	2000

In [23]:

```
data.shape
```

Out[23]:

(9, 2)

In [24]:

```
data.info()
```

```
<class 'pandas.core.frame.DataFrame'>
RangeIndex: 9 entries, 0 to 8
Data columns (total 2 columns):
 #   Column  Non-Null Count  Dtype
---  -
 0   Jurusan  9 non-null      object
 1   Jumlah   9 non-null      int64
dtypes: int64(1), object(1)
memory usage: 272.0+ bytes
```

In [25]:

```
jumlah = data["Jumlah"]  
jurusan = data["Jurusan"]  
  
plt.pie(jumlah, labels=jurusan)  
plt.show
```

Out[25]:

<function matplotlib.pyplot.show(close=None, block=None)>

