In [44]:
```
import matplotlib.pyplot as plt
import pandas as pd
import numpy as np
```

In [41]:
```
data={"person":[1,2,3,4,5,6,7,8,9,10],
      "scores":[22,30,35,26,36,25,32,30,35,29],
      "gender":[0,0,0,0,0,1,1,1,1,1]}
df=pd.DataFrame(data)
df
```

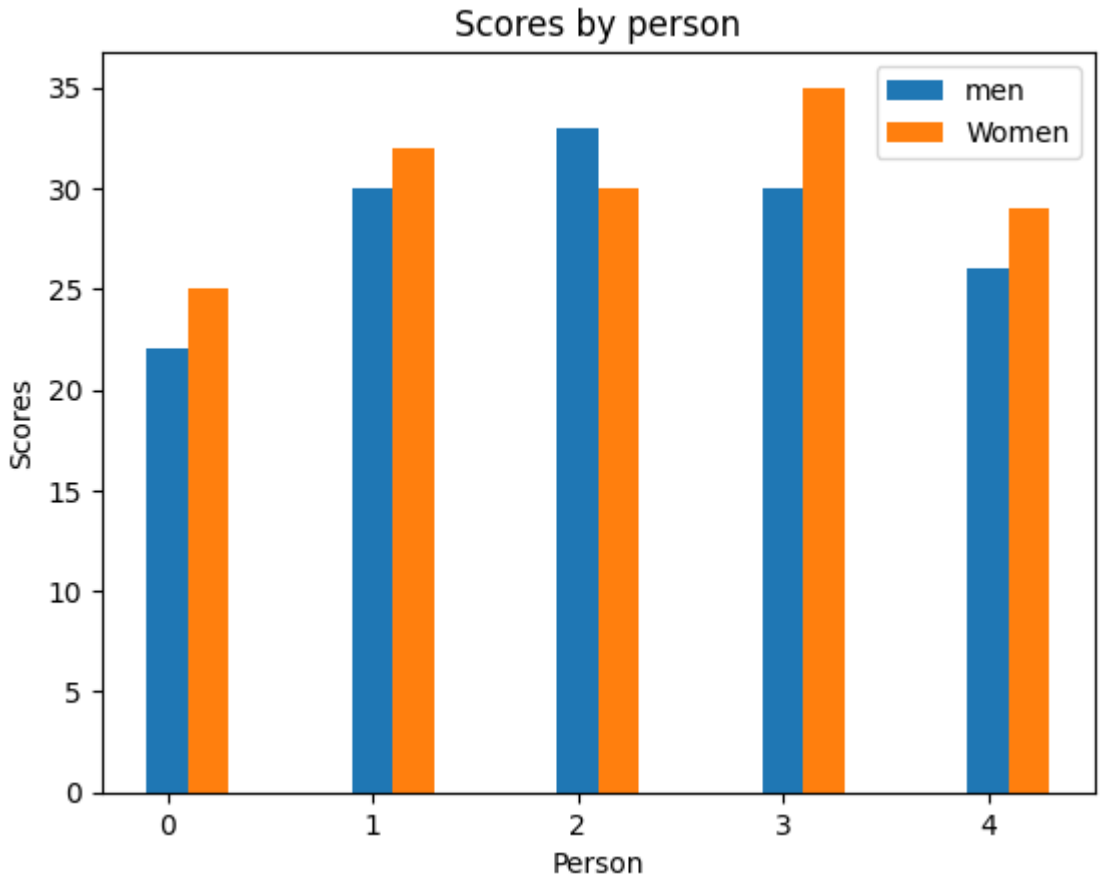
Out[41]:

	person	scores	gender
0	1	22	0
1	2	30	0
2	3	35	0
3	4	26	0
4	5	36	0
5	6	25	1
6	7	32	1
7	8	30	1
8	9	35	1
9	10	29	1

In [84]:
```
men = (22, 30, 33, 30, 26)
women = (25, 32, 30, 35, 29)
fig, ax = plt.subplots()
index = np.arange(5)
bar_width = 0.2
plt.bar(index, men ,bar_width,label="men")
plt.bar(index + bar_width, women, bar_width,label='Women')

plt.xlabel('Person')
plt.ylabel('Scores')
plt.title('Scores by person')
plt.legend()
```

Out[84]: <matplotlib.legend.Legend at 0x1f723e4ff10>



In [ ]:

In [ ]:

In [ ]:

In [ ]:

In [79]:
```
data={"country":["US","UK","China","Russia","Germany"],
      "medals":[46,27,26,19,17]}
```

In [80]:
```
df=pd.DataFrame(data)
```

In [81]:
```
df.to_csv("medal.csv",index=False)
```

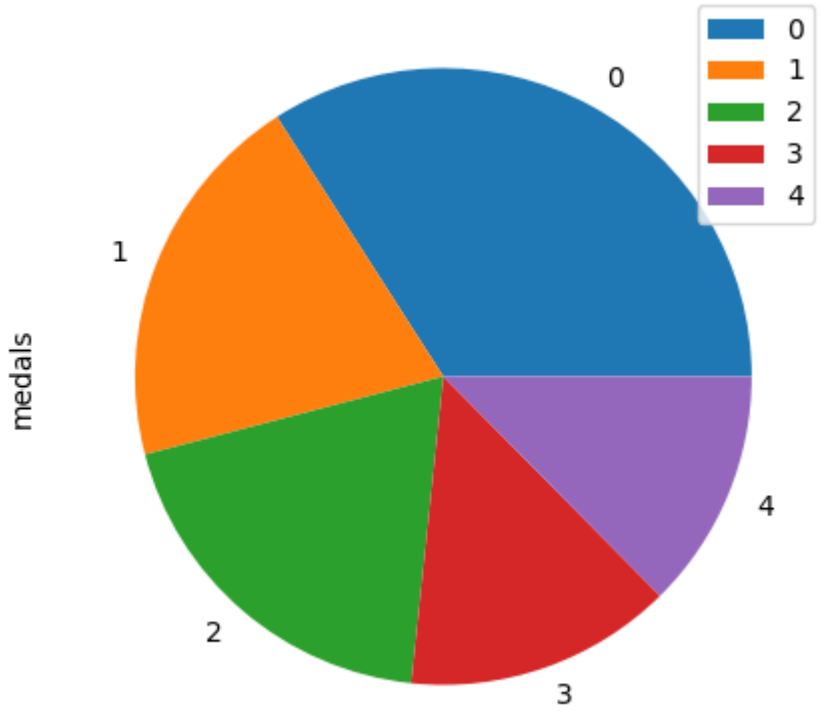
In [82]:
```
dfnew=pd.read_csv("medal.csv",index_col=False)
dfnew
```

Out[82]:

	country	medals
0	US	46
1	UK	27
2	China	26
3	Russia	19
4	Germany	17

In [ ]:

In [83]:
```
plot = df.plot.pie(y='medals', figsize=(5, 5))
```



In [ ]:
```

```