In [ ]:
```
B)(ii)
```

In [26]:
```
import pandas as pd
import matplotlib.pyplot as plt
import numpy as np
```

In [20]:
```
ds=pd.DataFrame({'country':['United States','Great Britian','China','Russia','Germa
ds.to_csv('file2.csv',index=0)
```

In [21]:
```
da=pd.read_csv('file2.csv')
da
```

Out[21]:

	country	gold_medal
0	United States	46
1	Great Britian	27
2	China	26
3	Russia	19
4	Germany	17

In [23]:
```
c=da['country']
c
```

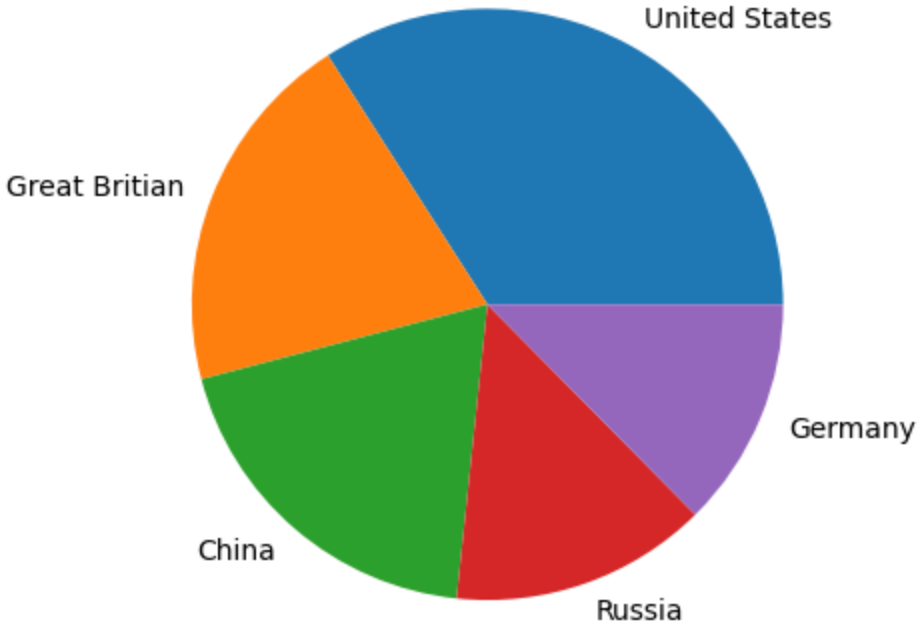
Out[23]:
```
0    United States
1    Great Britian
2            China
3           Russia
4          Germany
Name: country, dtype: object
```

In [24]:
```
gm=da['gold_medal']
gm
```

Out[24]:
```
0    46
1    27
2    26
3    19
4    17
Name: gold_medal, dtype: int64
```

In [27]:
```
plt.pie(gm,labels=c)
```

Out[27]:
```
([<matplotlib.patches.Wedge at 0x2c235acd9d0>,
  <matplotlib.patches.Wedge at 0x2c238124a90>,
  <matplotlib.patches.Wedge at 0x2c238125b10>,
  <matplotlib.patches.Wedge at 0x2c2381269d0>,
  <matplotlib.patches.Wedge at 0x2c238127a90>],
 [Text(0.5276844259140197, 0.9651679370181085, 'United States'),
  Text(-1.0246277154553132, 0.40017251869765635, 'Great Britian'),
  Text(-0.7168229424450668, -0.8343649496379847, 'China'),
  Text(0.3641697549943344, -1.037969358674603, 'Russia'),
  Text(1.015038685557071, -0.4239062005002681, 'Germany')])
```



In [ ]:
```
B)(i)
```

In [9]:
```
n=5
Means_Men=[22,30,35,35,26]
Means_Women=[25,32,30,35,29]
```

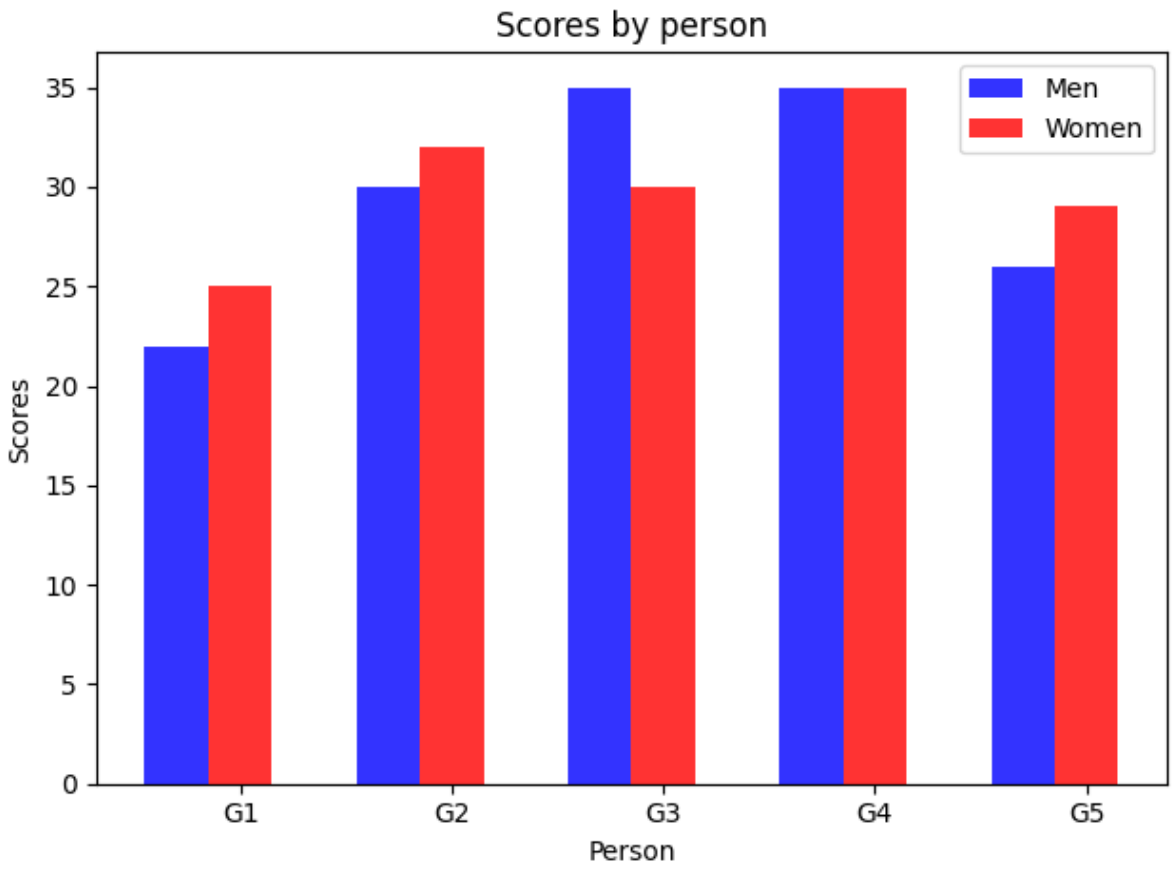
In [17]:
```
fig, ax = plt.subplots()
index = np.arange(n)
bar_width = 0.30
opacity = 0.8

rects1 = plt.bar(index, Means_Men, bar_width,
alpha=opacity,
color='b',
label='Men')

rects2 = plt.bar(index + bar_width, Means_Women, bar_width,
alpha=opacity,
color='r',
```

```
plt.xlabel('Person')
plt.ylabel('Scores')
plt.title('Scores by person')
plt.xticks(index + bar_width, ('G1', 'G2', 'G3', 'G4', 'G5'))
plt.legend()

plt.tight_layout()
plt.show()
```



In [ ]:

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