DSCC640 - Michael Ersevim - Week 1&2 assignment

In [79]:
```
# Call in libraries
import matplotlib.pyplot as plt
import numpy as np
import pandas as pd
```

In [80]:
```
# create dataframe from excel file downloaded
df = pd.read_excel('C:\\Users\\Kate\\Documents\\Bellevue DS classes\\DSC640\\hotdog-con
df.head()
```

Out[80]:

	Year	Winner	Dogs eaten	Country	New record
0	1980	Paul Siederman & Joe Baldini	9.1	United States	0
1	1981	Thomas DeBerry	11.0	United States	0
2	1982	Steven Abrams	11.0	United States	0
3	1983	Luis Llamas	19.5	Mexico	0
4	1984	Birgit Felden	9.5	Germany	0

In [81]:
```
# Count the number of winners for each country
df3 = df.groupby(['Country']).agg('count')
```

In [82]:
```
df3
```

Out[82]:

Country	Year	Winner	Dogs eaten	New record
Germany	1	1	1	1
Japan	9	9	9	9
Mexico	1	1	1	1
United States	20	20	20	20

In [83]:
```
#expirimenting
df3.iloc[0:,0]
```

Out[83]:
```
Country
Germany          1
Japan            9
Mexico           1
United States    20
Name: Year, dtype: int64
```

In [84]:
```
df3.info()
```

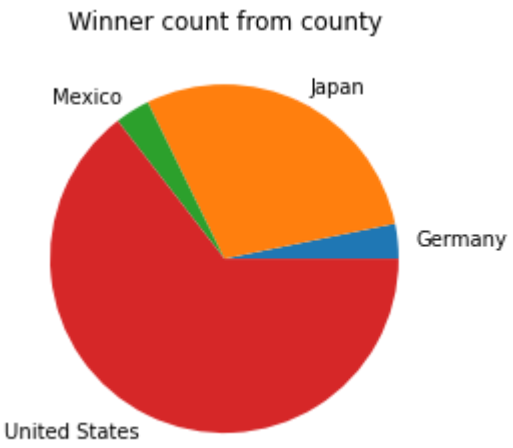
```
<class 'pandas.core.frame.DataFrame'>
Index: 4 entries, Germany to United States
Data columns (total 4 columns):
 #   Column      Non-Null Count  Dtype
---  ------      --------------  -----
 0   Year        4 non-null      int64
 1   Winner      4 non-null      int64
 2   Dogs eaten  4 non-null      int64
 3   New record  4 non-null      int64
dtypes: int64(4)
memory usage: 160.0+ bytes
```

In [97]:

```
#create the pie chart
plt.figure(figsize=(4,4));
x = df3['Winner']
labels = ['Germany', 'Japan', 'Mexico', 'United States']
plt.pie(x, labels=labels);
plt.title('Winner count from county')
plt.show
```

Out[97]:

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



In [96]:

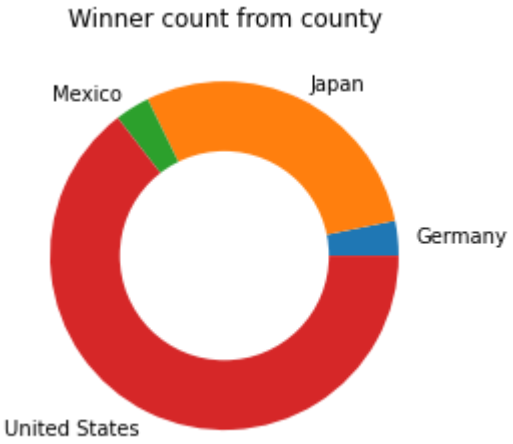
```
#create donut graph by making a white circle in the middle
plt.figure(figsize=(4,4));
x = df3['Winner']
labels = ['Germany', 'Japan', 'Mexico', 'United States']
plt.pie(x, labels=labels);
hole = plt.Circle((0, 0), 0.60, fc='white')
fig = plt.gcf()

# Adding Circle in Pie chart
fig.gca().add_artist(hole)

# Adding Title of chart
plt.title('Winner count from county')
plt.show
```

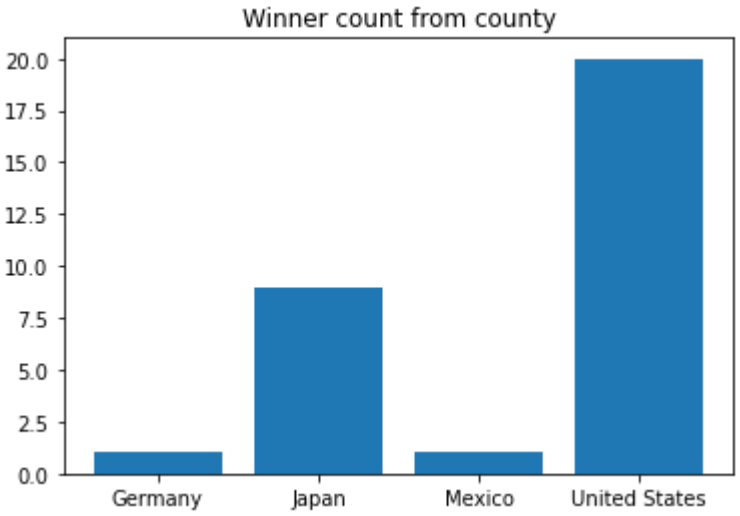
Out[96]:

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



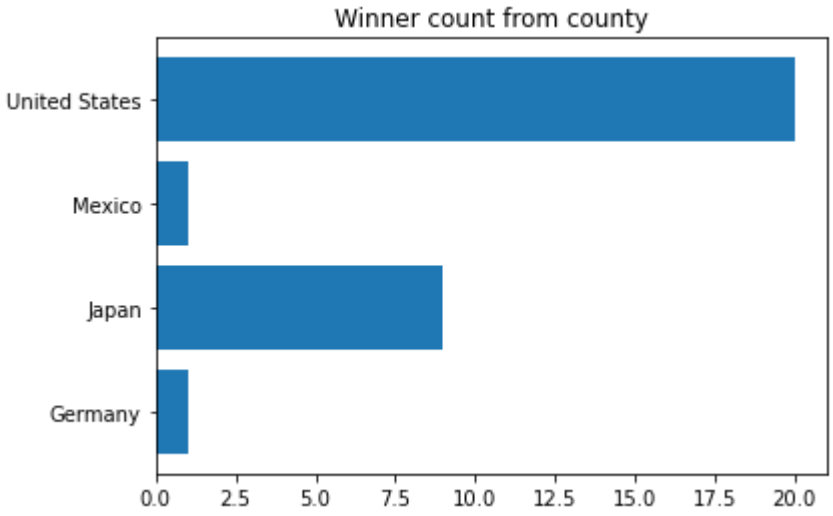
In [98]:

```
#Making a bar graph
plt.bar(labels, x)
plt.title('Winner count from county')
plt.show()
```



In [99]:

```
#making the horizontal bar graph
plt.barh(labels, x)
plt.title('Winner count from county')
plt.show()
```


Winner count from county
United States
Mexico
Japan
Germany
0.0
2.5
5.0
7.5
10.0
12.5
15.0
17.5
20.0