Assignment 02: Evaluate the Summer Olympics, London 2012 dataset

The comments/sections provided are your cues to perform the assignment. You don't need to limit yourself to the number of rows/cells provided. You can add additional rows in each section to add more lines of code.

If at any point in time you need help on solving this assignment, view our demo video to understand the different steps of the code.

Happy coding!

1: View and add the dataset

In [10]:

```
#Import the necessary library
import numpy as np
import pandas as pd
```

In [13]:

```
#import Dataset
df=pd.read_excel("Olympic 2012 Medal Tally.xlsx")
df
```

Out[13]:

	Unnamed: 0	Unnamed: 1	Unnamed: 2	Unnamed: 3	Unnamed: 4	Unnamed: 5	Unnamed: 6
0	NaN	Country	Country Code	Year	Medal Tally	NaN	NaN
1	NaN	NaN	NaN	NaN	Gold	Silver	Bronze
2	NaN	Great Britain	GBR	2012	29	17	19
3	NaN	China	CHN	2012	38	28	22
4	NaN	Russia	RUS	2012	24	25	32
5	NaN	United States	US	2012	46	28	29
6	NaN	Korea	KOR	2012	13	8	7
7	NaN	Japan	JPN	2012	7	14	17
8	NaN	Germany	GER	2012	11	11	14

In [14]:

```
#Manually add the Summer Olympics, London 2012 dataset as arrays
np_olympic_country=np.array(["GBR","China","RUS","US","KOR","JPN","GER"])
np_olympic_country_Gold=np.array([29,38,24,46,13,7,11])
np_olympic_country_Silver=np.array([17,28,25,28,8,14,11])
np_olympic_country_Bronze=np.array([19,22,32,29,7,17,14])
```

Find the country with maximum gold medals

In [15]:

```
#Use the argmax() method to find the highest number of gold medals
max_gold_index=np_olympic_country_Gold.argmax()
country_with_max_gold=np_olympic_country[max_gold_index]
country_with_max_gold
```

Out[15]:

```
'US'
```

In [16]:

```
#Print the name of the country
country_with_max_gold
```

Out[16]:

```
'US'
```

Find the countries with more than 20 gold medals

In [17]:

```
#Use Boolean indexing technique to find the required output

print(np_olympic_country[np_olympic_country_Gold>20])
```

```
['GBR' 'China' 'RUS' 'US']
```

Evaluate the dataset and print the name of each country with its gold medals and total number of medals

In [32]:

```
#Use a for loop to create the required output
for i in range(len(np_olympic_country)):
    gold_medals=np_olympic_country_Gold[i]
    country=np_olympic_country[i]
    total_medals=np_olympic_country_Bronze[i]+np_olympic_country_Gold[i]+np_olympic_coun
try_Silver[i]
    print("total_medals:",format(total_medals))
    print("goldmedals:",format(gold_medals))
    print(" country:",format(country))
```

```
total_medals: 65
goldmedals: 29
 country: GBR
total_medals: 88
goldmedals: 38
 country: China
total_medals: 81
goldmedals: 24
 country: RUS
total_medals: 103
goldmedals: 46
 country: US
total_medals: 28
goldmedals: 13
 country: KOR
total_medals: 38
goldmedals: 7
 country: JPN
total_medals: 36
goldmedals: 11
 country: GER
```

In [33]:

```
print("successfully completed London olympic dataset Project")
```

```
successfully completed London olympic dataset Project
```

In [34]:

```
print("Thank You Simplilearn")
```

```
Thank You Simplilearn
```

In [ ]: