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 [1]:
```
#Import the necessary library
import numpy as np
```

In [3]:
```
#Manually add the Summer Olympics, London 2012 dataset as arrays
countries = np.array(['Great Britain', 'China', 'Russia', 'United States', 'Korea
gold_medal = np.array([29, 38, 24, 46, 13, 7, 11])
silver_medal = np.array([17, 28, 25, 28, 8, 14, 11])
bronze_medal = np.array([19, 22, 32, 29, 7, 17, 14])
```

Find the country with maximum gold medals

In [7]:
```
#Use the argmax() method to find the highest number of gold medals
max_gold_medal_index = gold_medal.argmax()
country_max_gold_medal = countries[max_gold_medal_index]
print(f'Maximum gold medal index position: {max_gold_medal_index}')
print(f'Highest number of gold medals: {gold_medal.max()}')
```

```
Maximum gold medal index position: 3
Highest number of gold medals: 46
```

In [5]:
```
#Print the name of the country
print(f'Country with maximum gold medals: {country_max_gold_medal}')
```

```
Country with maximum gold medals: United States
```

Find the countries with more than 20 gold medals

In [18]:
```
#Use Boolean indexing technique to find the required output
print(f'Countries with more than 20 gold medals: {countries[gold_medal > 20]}')
```

```
Countries with more than 20 gold medals: ['Great Britain' 'China' 'Russia' 'Uni
ted States']
```

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

In [22]:
```
#Use a for loop to create the required output
for i in range(len(countries)):
    country = countries[i]
    gold = gold_medal[i]
    total = gold_medal[i] + silver_medal[i] + bronze_medal[i]
    print(f'{country}: {gold} gold medals, {total} medals in total')
```

```
Great Britain: 29 gold medals, 65 medals in total
China: 38 gold medals, 88 medals in total
Russia: 24 gold medals, 81 medals in total
United States: 46 gold medals, 103 medals in total
Korea: 13 gold medals, 28 medals in total
Japan: 7 gold medals, 38 medals in total
Germany: 11 gold medals, 36 medals in total
```