Assignment 02_Completed

July 19, 2020

1 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

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

```
[5]: #Manually add the Summer Olympics, London 2012 dataset as arrays
     countries = np.array(['Great Britain','China','Russia','United␣
      ↪States','Korea','Japan','Germany'])
     gold_medals = np.array([29,38,24,46,13,7,11])
     silver_medals = np.array([17,28,25,28,8,14,11])
     bronze_medals = np.array([19,22,32,29,7,17,14])
```

Find the country with maximum gold medals

```
[6]: #Use the argmax() method to find the highest number of gold medals
     highest_gold_medals = gold_medals.argmax()
```

```
[8]: #Print the name of the country
     countries[highest_gold_medals]
```

```
[8]: 'United States'
```

Find the countries with more than 20 gold medals

```
[10]: #Use Boolean indexing technique to find the required output
      countries[gold_medals > 20]
```

```
[10]: array(['Great Britain', 'China', 'Russia', 'United States'], dtype='<U13')
```

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

```
[11]: #Use a for loop to create the required output
      for i in range(len(countries)):
          country = countries[i]
          gold_medals_count = gold_medals[i]
          total_medals_count = gold_medals[i] + silver_medals[i] + bronze_medals[i]
          print('Country - {} has {} gold medals and {} total medals'.
       ↪format(country,gold_medals_count,total_medals_count))
```

```
Country - Great Britain has 29 gold medals and 65 total medals
Country - China has 38 gold medals and 88 total medals
Country - Russia has 24 gold medals and 81 total medals
Country - United States has 46 gold medals and 103 total medals
Country - Korea has 13 gold medals and 28 total medals
Country - Japan has 7 gold medals and 38 total medals
Country - Germany has 11 gold medals and 36 total medals
```