Assignment 01: Evaluate the GDP 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 [8]:
```
#Import required library
import numpy as np
```

In [130…
```
#Manually add the dataset
country = np.array(['Algeria','Angola','Argentina','Australia','Austria','I
GDP= np.array([2255.225482,629.9553062,11601.63022,25306.82494,27266.40335,
```

2: Find and print the name of the country with the highest GDP

In [131…
```
#Use the argmax() method to find the highest GDP
max = np.argmax(GDP)
max
```

Out[131… 45

In [132…
```
#Print the name of the country
country[max]
```

Out[132… 'Norway'

3: Find and print the name of the country with the lowest GDP

In [134…
```
#Use the argmin() method to find the lowest GDP
min= np.argmin(GDP)
country[min]
```

Out[134… 'Ethiopia'

Print the name of the country

data[min-1,0]

4: Print out text ('evaluating country') and input value ('country name') iteratively

In [135…
```
#Use a for loop to print the required output
for data1 in country:
    print (data1)
```

Algeria
Angola
Argentina
Australia
Austria
Bahamas
Bangladesh
Belarus
Belgium
Bhutan
Brazil
Bulgaria
Cambodia
Cameroon
Chile
China
Colombia
Cyprus
Denmark
El Salvador
Estonia
Ethiopia
Fiji
Finland
France
Georgia
Ghana
Grenada
Guinea
Haiti
Honduras
Hungary
India
Indonesia
Ireland
Italy
Japan
Kenya
South Korea
Liberia
Malaysia
Mexico
Morocco
Nepal
New Zealand
Norway
Pakistan
Peru
Qatar
Russia
Singapore
South Africa
Spain
Sweden
Switzerland
Thailand
United Arab Emirates
United Kingdom
United States
Uruguay
Venezuela
Vietnam
Zimbabwe

5: Print out the entire list of the countries with their GDPs

In [151…

```
#Use a for loop to print the required list
for data1 in range(np.size(country)):
    print (country[data1],"GDP is =",GDP[data1])
```

Algeria GDP is = 2255.225482
Angola GDP is = 629.9553062
Argentina GDP is = 11601.63022
Australia GDP is = 25306.82494
Austria GDP is = 27266.40335
Bahamas GDP is = 19466.99052
Bangladesh GDP is = 588.3691778
Belarus GDP is = 2890.345675
Belgium GDP is = 24733.62696
Bhutan GDP is = 1445.760002
Brazil GDP is = 4803.398244
Bulgaria GDP is = 2618.876037
Cambodia GDP is = 590.4521124
Cameroon GDP is = 665.7982328
Chile GDP is = 7122.938458
China GDP is = 2639.54156
Colombia GDP is = 3362.4656
Cyprus GDP is = 15378.16704
Denmark GDP is = 30860.12808
El Salvador GDP is = 2579.115607
Estonia GDP is = 6525.541272
Ethiopia GDP is = 229.6769525
Fiji GDP is = 2242.689259
Finland GDP is = 27570.4852
France GDP is = 23016.84778
Georgia GDP is = 1334.646773
Ghana GDP is = 402.6953275
Grenada GDP is = 6047.200797
Guinea GDP is = 394.1156638
Haiti GDP is = 385.5793827
Honduras GDP is = 1414.072488
Hungary GDP is = 5745.981529
India GDP is = 837.7464011
Indonesia GDP is = 1206.991065
Ireland GDP is = 27715.52837
Italy GDP is = 18937.24998
Japan GDP is = 39578.07441
Kenya GDP is = 478.2194906
South Korea GDP is = 16684.21278
Liberia GDP is = 279.2204061
Malaysia GDP is = 5345.213415
Mexico GDP is = 6288.25324
Morocco GDP is = 1908.304416
Nepal GDP is = 274.8728621
New Zealand GDP is = 14646.42094
Norway GDP is = 40034.85063
Pakistan GDP is = 672.1547506
Peru GDP is = 3359.517402
Qatar GDP is = 36152.66676
Russia GDP is = 3054.727742
Singapore GDP is = 33529.83052
South Africa GDP is = 3825.093781
Spain GDP is = 15428.32098
Sweden GDP is = 33630.24604
Switzerland GDP is = 39170.41371
Thailand GDP is = 2699.123242
United Arab Emirates GDP is = 21058.43643
United Kingdom GDP is = 28272.40661
United States GDP is = 37691.02733
Uruguay GDP is = 9581.05659
Venezuela GDP is = 5671.912202
Vietnam GDP is = 757.4009286
Zimbabwe GDP is = 347.7456605

6: Print the following:

1. Highest GPD value
2. Lowest GDP value
3. Mean GDP value
4. Standardized GDP value
5. Sum of all the GDPs

In [155…

```
print("Highest GPD value",GDP[max])
print("Lowest GDP value",GDP[min])
print("Mean GDP value",np.mean(GDP))
print("Sum of all the GDPs",np.sum(GDP))
```

```
Highest GPD value 40034.85063
Lowest GDP value 229.6769525
Mean GDP value 11289.409271639683
Sum of all the GDPs 711232.7841133
```

In [ ]: