



▼ 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

```
#Import required library
import numpy as np
```

```
#Manually add the dataset
```

```
countaries = np.array(['Algeria', 'Angola', 'Argentina', 'Australia', 'Austria', 'Bahamas', 'Barbados', 'Belgium', 'Bhutan', 'Brazil', 'Bulgaria', 'Cambodia', 'Cameroon', 'Chile', 'Cyprus', 'Denmark', 'El Salvador', 'Estonia', 'Ethiopia', 'Fiji', 'Finland', 'France', 'Ghana', 'Grenada', 'Guinea', 'Haiti', 'Honduras', 'Hungary', 'India', 'Indonesia', 'Japan', 'Kenya', 'South Korea', 'Liberia', 'Malaysia', 'Mexico', 'Morocco', 'New Zealand', 'Norway', 'Pakistan', 'Peru', 'Qatar', 'Russia', 'Singapore', 'Spain', 'Sweden', 'Switzerland', 'Thailand', 'United Arab Emirates', 'Uruguay', 'Venezuela', 'Vietnam', 'Zimbabwe'])

gdp_per_capita = np.array([2255.225482, 629.9553062, 11601.63022, 25306.82494, 27266.40335, 1942890.345675, 24733.62696, 1445.760002, 4803.398244, 2618.876037, 5967122.938458, 2639.54156, 3362.4656, 15378.16704, 30860.12808, 2579.12242.689259, 27570.4852, 23016.84778, 1334.646773, 402.6953275, 6047385.5793827, 1414.072488, 5745.981529, 837.7464011, 1206.991065, 27739578.07441, 478.2194906, 16684.21278, 279.2204061, 5345.213415, 62814646.42094, 40034.85063, 672.1547506, 3359.517402, 36152.66676, 3053825.093781, 15428.32098, 33630.24604, 39170.41371, 2699.123242, 21637691.02733, 9581.05659, 5671.912202, 757.4009286, 347.7456605])
```

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

```
#Use the argmax() method to find the highest GDP
max_gdp_per_capita = gdp_per_capita.argmax()
```

```
#Print the name of the country
countaries[max_gdp_per_capita]
```

```
'Norway'
```

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

```
#Use the argmin() method to find the lowest GDP
min_gdp_per_capita = gdp_per_capita.argmin()
```

```
#Print the name of the country
countaries[min_gdp_per_capita]
```

```
'Ethiopia'
```

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

```
#Use a for loop to print the required output
for i in countaries:
    print('evaluating country {}'.format(i))
```

```
evaluating country Bahamas
evaluating country Bangladesh
evaluating country Belarus
evaluating country Belgium
evaluating country Bhutan
evaluating country Brazil
evaluating country Bulgaria
evaluating country Cambodia
evaluating country Cameroon
evaluating country Chile
evaluating country China
evaluating country Colombia
evaluating country Cyprus
evaluating country Denmark
evaluating country El Salvador
evaluating country Estonia
evaluating country Ethiopia
evaluating country Fiji
evaluating country Finland
evaluating country France
evaluating country Georgia
evaluating country Ghana
evaluating country Grenada
evaluating country Guinea
evaluating country Haiti
```

```

evaluating country Honduras
evaluating country Hungary
evaluating country India
evaluating country Indonesia
evaluating country Ireland
evaluating country Italy
evaluating country Japan
evaluating country Kenya
evaluating country South Korea
evaluating country Liberia
evaluating country Malaysia
evaluating country Mexico
evaluating country Morocco
evaluating country Nepal
evaluating country New Zealand
evaluating country Norway
evaluating country Pakistan
evaluating country Peru
evaluating country Qatar
evaluating country Russia
evaluating country Singapore
evaluating country South Africa
evaluating country Spain
evaluating country Sweden
evaluating country Switzerland
evaluating country Thailand
evaluating country United Arab Emirates
evaluating country United Kingdom
evaluating country United States
evaluating country Uruguay
evaluating country Venezuela
evaluating country Vietnam
evaluating country Zimbabwe

```

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

```

#Use a for loop to print the required list
for i in range(len(countaries)):
    print('country {} per capita gdp is {}'.format(countaries[i],gdp_per_capita[i]))

country Bahamas per capita gdp is 19466.99052
country Bangladesh per capita gdp is 588.3691778
country Belarus per capita gdp is 2890.345675
country Belgium per capita gdp is 24733.62696
country Bhutan per capita gdp is 1445.760002
country Brazil per capita gdp is 4803.398244
country Bulgaria per capita gdp is 2618.876037
country Cambodia per capita gdp is 590.4521124
country Cameroon per capita gdp is 665.7982328
country Chile per capita gdp is 7122.938458
country China per capita gdp is 2639.54156
country Colombia per capita gdp is 3362.4656
country Cyprus per capita gdp is 15378.16704
country Denmark per capita gdp is 30860.12808
country El Salvador per capita gdp is 2579.115607
country Estonia per capita gdp is 6525.541272
country Ethiopia per capita gdp is 229.6769525
country Fiji per capita gdp is 2242.689259

```

```

country Fiji per capita gdp is 2272.00255
country Finland per capita gdp is 27570.4852
country France per capita gdp is 23016.84778
country Georgia per capita gdp is 1334.646773
country Ghana per capita gdp is 402.6953275
country Grenada per capita gdp is 6047.200797
country Guinea per capita gdp is 394.1156638
country Haiti per capita gdp is 385.5793827
country Honduras per capita gdp is 1414.072488
country Hungary per capita gdp is 5745.981529
country India per capita gdp is 837.7464011
country Indonesia per capita gdp is 1206.991065
country Ireland per capita gdp is 27715.52837
country Italy per capita gdp is 18937.24998
country Japan per capita gdp is 39578.07441
country Kenya per capita gdp is 478.2194906
country South Korea per capita gdp is 16684.21278
country Liberia per capita gdp is 279.2204061
country Malaysia per capita gdp is 5345.213415
country Mexico per capita gdp is 6288.25324
country Morocco per capita gdp is 1908.304416
country Nepal per capita gdp is 274.8728621
country New Zealand per capita gdp is 14646.42094
country Norway per capita gdp is 40034.85063
country Pakistan per capita gdp is 672.1547506
country Peru per capita gdp is 3359.517402
country Qatar per capita gdp is 36152.66676
country Russia per capita gdp is 3054.727742
country Singapore per capita gdp is 33529.83052
country South Africa per capita gdp is 3825.093781
country Spain per capita gdp is 15428.32098
country Sweden per capita gdp is 33630.24604
country Switzerland per capita gdp is 39170.41371
country Thailand per capita gdp is 2699.123242
country United Arab Emirates per capita gdp is 21058.43643
country United Kingdom per capita gdp is 28272.40661
country United States per capita gdp is 37691.02733
country Uruguay per capita gdp is 9581.05659
country Venezuela per capita gdp is 5671.912202
country Vietnam per capita gdp is 757.4009286
country Zimbabwe per capita gdp is 347.7456605

```

▼ 6: Print the following:

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

```

print(gdp_per_capita.max())
print(gdp_per_capita.min())
print(gdp_per_capita.mean())
print(gdp_per_capita.std())
print(gdp_per_capita.sum())

```

```
40034.85063  
229.6769525  
11289.409271639683  
12743.828910617945  
711232.7841133
```

✓ 0s completed at 10:12 PM

