

# Module 2: Functions and Internal Memory Management

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## Assignment

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**Problem Statement:**

Design a web page that provides a report on COVID-19 cases across countries. Following is the latest COVID-19 report as per WHO:

| Country | Cases   | New Cases | Deaths |
|---------|---------|-----------|--------|
| USA     | 2142515 | 291       | 117533 |
| Brazil  | 850796  | 0         | 42791  |
| Russia  | 528964  | 8835      | 6948   |
| India   | 322777  | 1151      | 9206   |
| UK      | 294375  | 0         | 41662  |

1. For the above data, find the total number of COVID-19 cases.

**Hint:** Use self-invoking and anonymous functions. Also use `array.map()` and `reduce()` functions.

2. Find the countries where there are no new COVID-19 cases.

**Hint:** Use arrow function and `array.filter()` function.

3. Add a column with the percentage of deaths/ total cases for each country.

**Hint:** Use function call, `array.forEach()`, and `array.push()`.

4. Assume that the number of COVID-19 cases in Spain increases to 3,00,000.

Insert the following record for Spain in the above table just below India.

|       |        |   |       |
|-------|--------|---|-------|
| Spain | 300000 | 0 | 27136 |
|-------|--------|---|-------|

**Hint:** Use `array.splice()`