**Project Euler Problem-Solving using R language**

Source: https://projecteuler.net/index.php?section=problems

Problem 1:

"If we list all the natural numbers below 10 that are multiples of 3 or 5, we get 3, 5, 6 and 9. The sum of these multiples is 23.

Find the sum of all the multiples of 3 or 5 below 1000".

Solution:

Let's represent natural number with a variable "x". We need to sum up all the multiples of 3 & 5 and sum of these results.

#for eg: given rule natural numbers below 10 .

#Note: As we are asked to consider numbers below 10. Hence considering 1:9

x <- seq(1:9)

#multiples of 3, means the results leads to zero, it is represented as "x %% 3 ==0"

sum(x[x %%3 == 0 | x%%5 ==0])

#final answer is: 23

#Final Work:

# Given rule natural numbers below 1000

x <- seq(1:999)

sum(x[x%%3 ==0 | x%%5 ==0])

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