**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.

**Programming Knowledge required**: How to write loop constructs.

**Solution Outline:** This problem tests your understanding of *loops* in your respective programming language. Create a variable that holds the final answer, let it be `multiple_sum` and is initialized to 0. Then we write a for/while loop checking if the looping variable is a multiple of 3 or 5. If it is then we increment the `multiple_sum` by looping variable value. Finally `multiple_sum` contains the final answer.

### Python Solution

```
N = 1000
multiple_sum = 0

for i in range(1, N):
    if i % 3 == 0 or i % 5 == 0:
        multiple_sum += i

print(multiple_sum)
```