QUIZ 2

ID: 001 **Time: 10:30 – 12:00**

Problem 1 – 1 points:

Write a function to calculate the sum of all integer numbers from N to M where N and M are from keyboard.

Input	Output
1 2	3

Problem 2 – 2 points:

Write a function to calculate the multiplication of all even integer numbers from N to M where N and M are from keyboard.

Input	Output
1 5	8

Problem 3– 2 points:

Write a function to find a k^{th} number in a lucas series which is defined as follows:

$$a_0 = a,\ a_1 = b,\ a_i = a_{i-1} + a_{i-2}$$

where a, b and k are inputted from keyboard

Input	Output
1 2 3	3

Problem 4 – 2 points:

Write a function to find the smallest integer number so that the multiplication of its digits is equal to N where N is inputted from keyboards.

Input	Output
10	25

Problem 5 – 2 points:

Write a function to split the positive integer number N into the multiplication of its prime divisors where N is inputted from keyboards. The output of function is printed out.

Input	Output
10	2 5
20	2 2 5

Problem 6 – 1 points:

Write a function to find a sub sequence in list A (N elements) which length is k so that its sum is biggest where N, A and k is given by keyboard

Input	Output
5 1 2 3 4 5 2	9

Explanation: we have k 2-sub-series: (1,2) (2,3), (3,4), (4,5) and the pair (4,5) is biggest in sum.