JAISHMA_CODING_CHALLENGE_2--03/06/2020

PYTHON code

1. **Task**

   You are given the year, and you have to write a function to check if the year is leap or not.

   Input Format

   Read y, the year that needs to be checked.

   Constraints

   $1900 <= y <= 10^5$

   Output Format

   Output is taken care of by the template. Your function must return a boolean

   value (True/False)

   Sample Input 0

   1990

   Sample Output 0

   False

   Solution:

   ```python
   def is_leap(n):
       if n % 400 == 0:
           return True
       if n % 100 == 0:
           return False
       if n % 4 == 0:
           return True
       return False

   print(is_leap(int(input())))
   ```

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2. Task

Read two integers from STDIN and print three lines where:

1. The first line contains the sum of the two numbers.

2. The second line contains the difference of the two numbers (first - second).

3. The third line contains the product of the two numbers.

Input Format

The first line contains the first integer, **a**.

The second line contains the second integer, **b**.

Constraints

$1 <= a <= 10^{10}$
$1 <= b <= 10^{10}$

Output Format

Print the three lines as explained above.

Sample Input 0

3

2

Solution:

a = int(input())
b = int(input())

print(a + b)
print(a - b)
print(a * b)

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3. Read an integer **N** .

Without using any string methods, try to print the following:

1 2 3 ….. N

Note that " **…..**" represents the values in between.

Input Format

The first line contains an integer **N**.

Output Format

Output the answer as explained in the task.

Sample Input 0

3

Sample Output 0

123

Solution:

```python
from __future__ import print_function
if __name__ == '__main__':
    n = int(raw_input())
    list = []
    num = 1
    string = ""
    for x in range(n):
        list.append(num)
        num += 1
    for x in list:
        string += str(x)
    print(string)
```

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