

# Last Moment Tutions

## Python Assignment No. 1

After completing the assignment submit your solution/output for review

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### Problem 1 :

An extra day is added to the calendar almost every four years as February 29, and the day is called a leap day. It corrects the calendar for the fact that our planet takes approximately 365.25 days to orbit the sun. A leap year contains a leap day. In the Gregorian calendar, three conditions are used to identify leap years:

- The year can be evenly divided by 4, is a leap year, unless:
- The year can be evenly divided by 100, it is NOT a leap year, unless:
- The year is also evenly divisible by 400. Then it is a leap year.
- This means that in the Gregorian calendar, the years 2000 and 2400 are leap years, while 1800, 1900, 2100, 2200, 2300 and 2500 are NOT leap years.

### Your Task

Given a year, determine whether it is a leap year. If it is a leap year, return the Boolean True, otherwise return False.

### Your Outcome

The function must return a Boolean value (True/False).

Input Example : 1900

Output Example : False

## Problem 2 :

You are given the firstname and lastname of a person on two different lines. Your task is to read them and print the following.

### Your Task

The first line contains the first name, and the second line contains the last name.

### Your Constraints

The length of the first and last name  $\leq 10$

### Input Example :

ABC

XYZ

### Output Example :

Hello ABC XYZ ! Welcome to LMT Python course.

## Problem 3 :

One of the built-in functions of Python is divmod, which takes two arguments a and b and returns a tuple containing the quotient of a/b first and then the remainder a

```
>>> print divmod(177,10)
```

```
(17, 7)
```

Here, the integer division is  $177/10 \Rightarrow 17$  and the modulo operator is  $177\%10 \Rightarrow 7$ .

### Your Task

- Read in two integers, a and b, and print three lines.
- The first line is the integer division a//b.
- The second line is the result of the modulo operator: a%b.
- The third line prints the divmod of a and b.

### Input Format

The first line contains the first integer, a, and the second line contains the second integer, b.

### Input Example :

177

10

### Output Example :

17

7

(17, 7)