Assignment - 2

INSTRUCTION:

- Submit only **.py** file. Other file format (like pdf or image file) will not be evaluated.
- Do not copy your code from other. **Plagiarism** is not allowed.
- **DO NOT PRINT ANY MESSAGE OTHER THAN THE SPECIFIED FORMATS**.
- Inputs should be taken from output console (the prompt).
- Do not print any message in the input() function.
- Strictly stick to the input output formats.
- Save you file the name as: Rollno + _ + AssignmentNo + _ + ProblemNo.py (Roll number in uppercase)
- E.g. 17ESKIT076_1_2.py

Problem statement 1:

Est time: 10 mins

Take a string S and width w.
Your task is to wrap the string into a paragraph of width w.

Input Format:

First line contains a string S.
Second line contains the width w.

Output Format:

Print the text wrapped paragraph.

Example 1:

INPUT: ABCDEFGHIJKLIMNOQRSTUVWXYZ
4
OUTPUT:

ABCD
EFGH
IJKL
IMNO
QRST
UVWX
YZ

Explanation: (self-explanatory)

Problem statement 2:

Est time: 20 mins

We add a Leap Day on February 29, almost every four years. The leap day is an extra , or intercalary day and we add it to the shortest month of the year, February.

In the Gregorian calendar three criteria must be taken into account to identify leap years:

1. The year can be evenly divided by 4, is a leap year, unless:

2. The year can be evenly divided by 100 , it is NOT a leap year, unless:

3. 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.

Task:

Take input any year and check whether the year is leap year or not(True/False).

Input Format:

Read y, the year that needs to be checked.

Output Format:

Your function must return Boolean value (True/False).

Example 1:

INPUT: 1990

OUTPUT: False

Explanation: (self-explanatory)

Problem Statement 3:

Swap Case: You are given a string and your task is to swap cases. In other words, convert all lowercase letters to uppercase letters and vice versa without using any function.

If no string can be converted print “No” without (inverted comma)

Input Format:

A single line containing a string S .

Output Format:

Print the modified string S .

Example 1:

INPUT： 30 days presents "Pythonist 2".
OUTPUT： 30 DAYS PRESENTS "pYTHONIST 2".

Explanation: (self-explanatory)

Example 2:

INPUT: 5 0 6

OUTPUT: No

Explanation: (Self-explanatory)