1. Most years have 365 days. However, the time required for the Earth to orbit the Sun is actually slightly more than that. As a result, an extra day, February 29, is included in some years to correct for this difference. Such years are referred to as leap years.

The rules for determining whether or not a year is a leap year follow:

* Any year that is divisible by 400 is a leap year.
* Of the remaining years, any year that is divisible by 100 is not a leap year.
* Of the remaining years, any year that is divisible by 4 is a leap year.
* All other years are not leap years.

Write a functions called leapyear() that receives one input – an integer of year from the user and returns True or False whether or not it is a leap year.

Example:

1-

leapyear(2400) # returns True

2-

leapyear(2024) # returns True

3-

leapyear(2025) # returns False

Write your submitted code in Notepad and save the file as .txt. For each exercise separately.

The file name should be: “Lesson2\_Exercise1\_[your ID].txt” – for example:  
“Lesson3\_Exercise1\_039115585.txt”