

Exercise 2 – Control Flow

Objective

The objective of this exercise is to reuse the equality and boolean statements from before to write some more complicated programs using if and looping!

Overview

Either create/open a new .py file or Jupyter Notebook

Looping

1. Write a while loop that prints out pairs of numbers that show the current value of n and the value of $n + 10$ as long as n is less than 10.
2. Then, write a while loop that prints out pairs of numbers that show n and $2n$ as long as n is less than 10
 - a. You don't need to use any predefined function for this, just consider using an appropriate operator

Conditionals

3. Write an if statement that based on a number between 1 and 7 prints out if today is a weekday or a weekend.
4. Write a loop which goes from 1 to 7 and prints out if today is a weekday or the weekend!

If we get time...

5. The rules for working out if a particular year is a leap year are:
 - If the year is divisible by four AND
 - ✓ The year is not divisible by 100 OR
 - ✓ The year is divisible by 400

Write some code that prints out the year and whether it was a leap year between 1900 and today.