

Exercises

The following exercises can be done in the IPython console window

1. What operator can be used to check that a given number is an even number.
2. We have seen that arithmetic operators can be used with numbers, and that at least the addition operator can be used with strings. In both cases, the type of each operand is the same. Can you think of a use case for one of the operators where the left and right operand are of a different type (e.g., a number and a string)
3. Suppose that we have a variable labeled `login_name` that holds the identification code of a user who is trying to get access to a system. The codes that give access to the system are “admin” and “guest”. Write a single logical expression that evaluates this condition (i.e., the expression should only return True if the value of the variable corresponds to one of these codes).

The following exercises can be solved in the code editor

4. Create a script in which you create a variable `radius` with a numerical value of your choice. Compute the area of a circle with that radius and assign the result to a variable labeled `area`. Finally, print this value to the console window.
5. Now make your program interactive by using the `input()` function to get the value for the radius of your circle. Then, use the same procedure to calculate the area of the circle and print it to the output window.