Assignment 1: Understanding Python Data Types

Instructions:

1. Read the following article to understand the basic data types in Python: <https://docs.python.org/3/library/stdtypes.html>
2. In a Jupyter Notebook, write a code to demonstrate the use of the following data types:
   * Integer
   * Float
   * String
   * Boolean
   * List
   * Tuple
   * Set
   * Dictionary
3. For each data type, write a code that does the following:
   * Create a variable with a relevant name and assign a value to it.
   * Print the data type of the variable.
   * Perform at least two operations on the variable (e.g., add, multiply, concatenate, etc.).
   * Print the result of the operations.

Example code for Integer:

python

# Create a variable

age = 27

# Print the data type of the variable

print(type(age))

# Perform operations

age = age + 3

age = age \* 2

# Print the result of the operations

print(age)

Submission:

* Save your Jupyter Notebook and submit it as a .ipynb file.

Grading:

* Code for each data type (5 points each)
* Explanations and comments (5 points)
* Proper use of variable names (5 points)
* Proper use of operations (5 points)

Total: 30 points