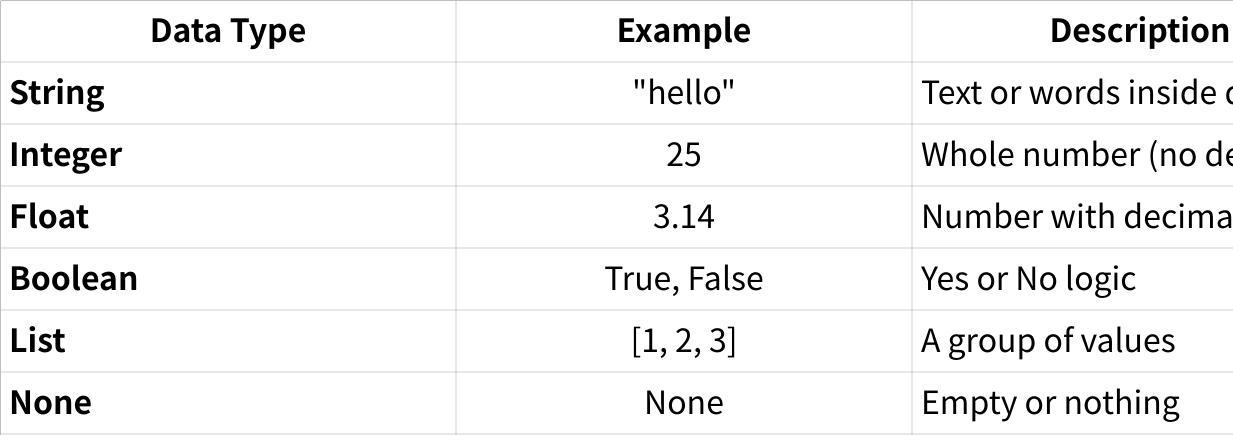
**Exercise | Python Data Types**

**Topic:** Python Data Types  
**Time Allotted:** 40 Minutes  
**Objective:** Explore and identify different types of data in Python by creating and editing variable examples.

**🧠 What Are Python Data Types?**

In Python, **data types** are the kind of information you give to a variable. Here are a few examples:



**Click the image to view the sheet.**

**🔍 Instructions:**

You’ll work with a sample Python code that uses different data types. Your task is to explore, change, and create examples using your own information.

You’ll also “test” Python by changing the values and watching how the output changes.

**💻 Sample Code to Edit:**

|  |
| --- |
| Python # Data Type Playground  my\_name = "Alex" # String my\_age = 20 # Integer my\_height = 5.6 # Float is\_student = True # Boolean my\_favorite\_numbers = [7, 11, 23] # List nothing\_here = None # None  print("Name:", my\_name) print("Age:", my\_age) print("Height:", my\_height) print("Are you a student?", is\_student) print("Favorite numbers:", my\_favorite\_numbers) print("Nothing here:", nothing\_here) |

**🎯 Choose 2–3 Challenges Below:**

🔲 1. Replace all the values with **your own information**  
 🔲 2. Add **2 more data types** (e.g., create a list of colors or use a new boolean)  
 🔲 3. Change is\_student to False — what happens?  
 🔲 4. Add a new float (e.g., grade\_average = 92.5) and print it  
 🔲 5. Change my\_favorite\_numbers to a **list of words**

**✏️ Your Updated Code**

# Data Type Playground

my\_name = str("Jessie") # String

my\_age = int(2) # Integer

my\_gwa = float(1.25) # Float

is\_student = bool(True) # Boolean

my\_fav\_animes = ["Naruto", "One Piece", "Detective Conan"] # List

colors = ["Violet", "Red", "Black"] # List

nothing\_here = None # None

print("Name:", my\_name)

print("Age:", my\_age)

print("GWA:", my\_gwa)

print("Are you a student?", is\_student)

print("Favorite numbers:", my\_fav\_animes)

print("Favorite Colors:", colors)

print("Nothing here:", nothing\_here)

**🖼️ Screenshots**

* Screenshot of your edited code

A screen shot of a computer program

AI-generated content may be incorrect.

* A computer screen shot of a program

  AI-generated content may be incorrect.Screenshot of your terminal output

**🤔 Reflection Questions**

1. Which data types did you enjoy using most? Why?
2. What happens when you mixed numbers with text?
3. Why is it useful to check the **type** of a variable?