

DATA CONVERSIONS

- **Constants in Python**

Constants are variables whose values do not change throughout the program.

- By convention, constants are written in **ALL CAPS**.
- Python doesn't enforce constants, but developers follow this practice for readability.

PI = 3.14159

GRAVITY = 9.8

APP_NAME = "My App"

- **Data Type Conversion in Python**

Python supports **type casting** to convert one data type into another:

- `int()` → Converts to integer
- `float()` → Converts to float
- `complex()` → Converts to complex number
- `str()` → Converts to string

Example Table: Data Type Conversion

Original Value	Conversion Type	Python Code	Output
x = 10	int → float	<code>float(x)</code>	10.0
y = 15.75	float → int	<code>int(y)</code>	15
z = 7	int → complex	<code>complex(z)</code>	(7+0j)