### **Variables**

# **PYTHON KA CHILI**

In Python, declaring a variable is straightforward. You simply assign a value to a variable name using the = operator.

```
# Variable assignment
x = 10
name = "Alice"
is_active = True
```

- x, name, and is\_active are variables.
- 10, "Alice", and True are the values assigned to these variables.

**Note:** Unlike some other programming languages, Python does not require you to declare the type of a variable explicitly.



## Variables naming Rules

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- 1. Case-Sensitive: Variable names are case-sensitive.
  - a. age, Age, and AGE are three different variables.
- 2. Start with a Letter or Underscore: Variable names must start with a letter (a-z, A-Z) or an underscore \_.
  - a. Valid: \_value, data1
  - b. Invalid: 1data, #score
- 3. **Followed by Letters, Digits, or Underscores:** After the first character, you can use letters, digits, or underscores.
  - a. Valid: value\_1, data\_set
  - b. Invalid: data-set (hyphens are not allowed)



#### 1. Use Lowercase Letters

a. Example: total\_score, user\_name

### 2. Avoid Reserved Keywords

 a. Reserved keywords include if, else, while, for, class, def, etc.

## 3. Meaningful Names

a. Good: student\_count, average\_height

b. Bad: x, y, data (unless used in a specific context)

### 4. Constants in Uppercase

a. Mostly used in UPPER CASE

b. Example: **PI = 3.1416**