# VARIABLES - A variable is like a container or a label that stores a value/data

#syntax

variable\_name = data/value

student\_name = "john"

age = 17

fees = 15000.00

print(student\_name)

print(age)

print(fees)

# 🧪 Rules for Naming Variables

Must start **with** a letter or underscore

Cannot start **with** a number

Can contain letters, numbers, and underscores

Are case-sensitive (Name **and** name are different)

# ✅ Valid Variable Names:

name = "Alice"              # Starts with a letter

\_name = "Bob"               # Starts with an underscore

u1ser1 = "Charlie"           # Letters and digits allowed after the first character

user\_name = "David"         # Underscores are allowed

PI = 3.14                   # Constants in uppercase

# ❌ Invalid Variable Names: (will cause errors)

1name = "Alice"             #  Starts with a number

user-name = "Bob"           #  Hyphens are not allowed

total$ = 100                #  Special characters like $ are not allowed

class = "Python"            #  'class' is a reserved keyword

# Multi Words Variable Names:

1.Camel Case - Each word, **except** the first, starts **with** a capital letter:

eg - student\_Name = "Rajesh"

2.Pascal Case - Each word starts **with** a capital letter:

eg - Student\_Name = "Rajesh"

3.Snake Case - Each word is separated by an underscore character:

eg - student\_name = "John"

# Many Values to Multiple Variables:

x, y, z = "Orange", "Banana", "Cherry"

print(x)

print(y)

print(z)