**✅ Conditional Statements in Python**

**🔍 What are Conditional Statements?**

Conditional statements are used to **perform different actions based on different conditions**. They help make decisions in programs — similar to real-life "if this, then that" logic.

**🧱 Types of Conditional Statements in Python**

1. **if statement**
2. **if-else statement**
3. **if-elif-else ladder**
4. **Nested if statements**

**1️⃣ if Statement**

Executes a block of code only if the condition is **True**.

**Syntax:**

if condition:

# block of code

**Example:**

age = 18

if age >= 18:

print("You are eligible to vote.")

**2️⃣ if-else Statement**

Executes one block if the condition is **True**, otherwise runs the else block.

**Syntax:**

if condition:

# if-block

else:

# else-block

**Example:**

marks = 40

if marks >= 35:

print("You passed!")

else:

print("You failed.")

**3️⃣ if-elif-else Statement**

Used for multiple conditions. Checks conditions one by one from top to bottom.

**Syntax:**

if condition1:

# block1

elif condition2:

# block2

else:

# else-block

**Example:**

num = 0

if num > 0:

print("Positive")

elif num < 0:

print("Negative")

else:

print("Zero")

**4️⃣ Nested if Statements**

You can place one if inside another. Useful for **complex decision making**.

**Example:**

x = 20

if x > 10:

if x < 30:

print("x is between 10 and 30")