**Conditional Statements**

1. **introduction to conditionalstatements: if, else, elif.**

* Conditional statements in Python allow you to execute certain blocks of code based on specific conditions. They are fundamental for decision-making in programming.

**1. if Statement**

The if statement evaluates a condition and executes the associated block of code if the condition is True.

age = 20

if age >= 18:

print("You are an adult.")

**2. else Statement**

The else statement follows an if block and executes its code if the if condition is False.

age = 16

if age >= 18:

print("You are an adult.")

else:

print("You are a minor.")

**3. elif Statement**

Short for "else if," the elif statement allows you to check multiple conditions sequentially.

age = 25

if age < 18:

print("You are a minor.")

elif age < 60:

print("You are an adult.")

else:

print("You are a senior citizen.")

1. **Nested if-else conditions.**

Nested if statements are if statements placed inside another if or else block. They are useful for checking multiple conditions in a hierarchical manner.

Example 1: Age and Membership Status

age = 30

is\_member = True

if age >= 18:

if is\_member:

print("Adult member.")

else:

print("Adult non-member.")

else:

if is\_member:

print("Minor member.")

else:

print("Minor non-member.")