**Que 1 : Introduction to the print() function in Python.**

The print() function in Python is used to **display output** on the screen.  
It is one of the most commonly used built-in functions and is essential for:

* Debugging
* Displaying results
* Showing messages to the user

**Examples**

**1. Simple print**

**print("Hello, world!")**

**Output:**

Hello, world!

**2. Printing numbers**

print(10)

print(3.14)

**3. Printing multiple values**

name = "Krishna"

age = 20

print("Name:", name, "Age:", age)

**4. Custom separator**

print("Apple", "Banana", "Cherry", sep=", ")

**Output:**

Apple, Banana, Cherry

**5. Custom end (no newline)**

print("Hello", end=" ")

print("World")

**Output:**

Hello World

**Use Cases of print()**

* Showing output from calculations
* Displaying values of variables
* Creating menus or prompts
* Debugging errors in programs

**Que 2 : Formatting outputs using f-strings and format().**

**1. f-strings**

**Fast, modern, and readable way to format strings**

**Syntax:**

f"your text {variable}"

**Example:**

name = "Krishna"

age = 20

print(f"My name is {name} and I am {age} years old.")

**Output:**

My name is Krishna and I am 20 years old.

**f-string with expressions**

a = 5

b = 3

print(f"The sum of {a} and {b} is {a + b}")

**Output:**

The sum of 5 and 3 is 8

**f-string with formatting numbers:**

pi = 3.1415926535

print(f"Pi rounded to 2 decimal places: {pi:.2f}")

**Output:**

Pi rounded to 2 decimal places: 3.14

**2. .format() Method**

Works in Python 2 & 3, slightly older than f-strings.

**Syntax:**

"your text {}".format(value)

**Example:**

name = "Krishna"

age = 20

print("My name is {} and I am {} years old.".format(name, age))

**Output:**

My name is Krishna and I am 20 years old.

**Formatting numbers with .format()**

pi = 3.1415926535

print("Pi rounded to 2 decimal places: {:.2f}".format(pi))

**Output:**

Pi rounded to 2 decimal places: 3.14

**Using positional arguments**

print("{1} is older than {0}".format("Alice", "Bob"))

**Output:**

Bob is older than Alice

**Using named arguments**

print("Hello, {name}. You are {age} years old.".format(name="Krishna", age=20))