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Output Statement in Python

Basic Output in Python

- The print() function displays output to the user.
- Output is the information or result produced by a program.
- The sep and end options can be used to customize the output.
- Multiple values, separated by commas, can be printed in the same statement.
- By default, each value is separated by a space character in the output.
- The sep option can be used to change this behavior.
- By default, the print() function adds a newline character at the end of the output.
- A newline character tells the display to move to the next line. The end option can be used to continue printing on the same line.

Code	What it is	What it does
<code>print</code>	Built-in function	Sends output to the screen
<code>"Hello, world!"</code>	String (text data)	The message to display
<code>print("Hello, world!")</code>	Full statement to execute	Displays: <code>Hello, world!</code>

Examples

1. Printing Text
`print("Hello, World!")`

Output:
Hello, World!
NOTE: Text must be written in **quotes** (single ' ' or double " ").

2. Printing Numbers
`print(10)`
`print(25 + 5)`

Output:
10
30
NOTE: Numbers can be written without quotes. Python can also do calculations.

3. Printing Multiple Items
`print("My name is", "XYZ")`
`print("The sum is:", 10 + 20)`

Output:
My name is XYZ

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The sum is: 30

Note: Using commas (,) joins multiple values inside one print().

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4. Printing with Escape Characters

```
print("Hello\nWorld") # \n = new line  
print("Hello\tWorld") # \t = tab space
```

Output:

```
Hello  
World  
Hello World
```

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5. Printing Variables

```
name = "QWERTY"  
age = 25  
print("Name:", name)  
print("Age:", age)
```

Output:

```
Name: QWERTY  
Age: 25
```

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Using Separator and End in Python

sep (Separator)

- By default, print() separates multiple items with a space.
- sep allows you to change that separator.

Example 1: Default behavior

```
print("Hello", "World", "Python")
```

Output:

```
Hello World Python
```

Example 2: Using sep

```
print("Hello", "World", "Python", sep="-")  
print("2025", "09", "16", sep="/")
```

Output:

```
Hello-World-Python  
2025/09/16
```

NOTE: sep="-" puts a dash instead of spaces.

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end

- By default, print() ends with a **newline (\n)**, so each print() goes to a new line.
- end lets you decide what should be printed at the end instead of a newline.

Example 1: Default behavior

```
print("Hello")
print("World")
```

Output:

Hello
World

Example 2: Using end

```
print("Hello", end=" ")
print("World")
```

Output:

Hello World

NOTE: end=" " prevents a new line and adds a space instead.

Code	Output
<pre>print("Today is Monday.") print("I like string beans.")</pre>	<pre>Today is Monday. I like string beans.</pre>
<pre>print("Today", "is", "Monday") print("Today", "is", "Monday", sep="...")</pre>	<pre>Today is Monday Today...is...Monday</pre>
<pre>print("Today is Monday, ", end="") print("I like string beans.")</pre>	<pre>Today is Monday, I like string beans.</pre>
<pre>print("Today", "is", "Monday", sep="?", end="!!") print("I like string beans.")</pre>	<pre>Today? is? Monday!!I like string beans.</pre>

Examples of Print in Python

Printing with String Formatting

Python gives you many ways to combine text and variables:

Method 1: Using + (Concatenation)

```
name = "Karan"
```

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```
print("Hello " + name)
```

Output:

Hello Karan

- You must convert non-strings to string before concatenation:
- Example: `print("Age: " + str(age))`

Method 2: Using f-Strings (Modern & Recommended)

```
name = "Priya"
age = 21
print(f"My name is {name} and I am {age} years old.")
```

Output:

My name is Priya and I am 21 years old.

Explanation:

- f-strings let you directly insert variables using `{}`.
- Introduced in Python 3.6 and later.

Method 3: Using .format()

```
name = "Rohan"
age = 19
print("My name is {} and I am {} years old.".format(name, age))
```

Output:

My name is Rohan and I am 19 years old.

Explanation:

- `.format()` replaces `{}` placeholders with variables in order.

Escape Characters in Strings

Escape characters let you format your string output.

Escape Code	Meaning	Example	Output
<code>\n</code>	New Line	<code>print("Hello\nWorld")</code>	HelloWorld
<code>\t</code>	Tab Space	<code>print("Hello\tWorld")</code>	Hello World
<code>\\</code>	Backslash	<code>print("C:\\folder")</code>	C:\folder
<code>\"</code>	Double Quote	<code>print("He said \"Hi!\")</code>	He said "Hi!"

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Assignment

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Ques1:

`x = 10`

`y = 5`

`print("Sum:", x + y)`

What will be the output?

A) Sum: x + y

B) Sum: 105

C) Sum: 15

D) Error

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Ques 2:

`name = "Happy"`

`print("My name is", name)`

Which option matches the output?

A) My name is "Happy"

B) My name is Happy

C) name is Happy

D) Error

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Ques 3:

`print(5, 10, 15)`

Output:

5 10 15

Why are numbers separated by spaces?

A) Because print() adds spaces between items by default.

B) Because numbers must be written with commas.

C) Because it is an error.

D) None of these.

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