

Input and Output

Day 3 - Python Basics

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Agenda

Python Online Free Ramzan Course 2025 Taught by: Shaida Muhammad

- 1 Taking user input with input()
- 2 Displaying output with print()
- **3** Formatting output using f-strings and .format()
- 4 Hands-on practice

Taking User Input

- input() Function: Used to take input from the user.
- Syntax:

```
variable_name = input("Prompt message: ")
```

• Example:

```
name = input("Enter your name: ")
print("Hello, " + name)
```

Note: The input() function always returns a string.



Displaying Output

- print() Function: Used to display output.
- Syntax:

```
print("Message")
```

Example:

```
print("Welcome to Python!")
```

Printing Variables:

```
name = "Ali"
print("Hello, " + name)
```



Formatting Output with f-strings

- f-strings (Formatted String Literals):
 - Introduced in Python 3.6.
 - Easy and readable way to format strings.
- Syntax:

```
f"Message {variable}"
```

• Example:

```
name = "Ali"
age = 25
print(f"My name is {name} and I am {age} years old.")
```

Formatting Output with .format()

- .format() Method:
 - Older method for formatting strings.
 - Still widely used.
- Syntax:

```
"Message {}".format(variable)
```

Example:

```
name = "Ali"
age = 25
print("My name is {} and I am {} years
old.".format(name, age))
```

Hands-On Practice

 Task 1: Write a program to take the user's name and age as input and display a message.

```
name = input("Enter your name: ")
age = input("Enter your age: ")
print(f"Hello {name}, you are {age} years old.")
```

• Task 2: Write a program to calculate the sum of two numbers entered by the user.

```
num1 = int(input("Enter first number: "))
num2 = int(input("Enter second number: "))
sum = num1 + num2
print(f"The sum is {sum}.")
```

Task 3: Write a program to display a formatted string using .format().

```
book = "Python Programming"
author = "John Doe"
print("I am reading {} by {}.".format(book,
author))
```

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Recap

- Taking user input with input().
- Displaying output with print().
- Formatting output using f-strings and .format().



Homework

- Write a program to take the user's favorite color and display a message.
- Write a program to calculate the area of a rectangle using user input for length and width.
- Write a program to display a formatted string using both f-strings and .format().



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Q&A

- Do you have any questions?
- Share your thoughts or challenges.

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Closing

Next class: Basic Operators.