## **🎯 Python Strings – Methods, f-strings, slicing**

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## **🧠 What is a String?**

A **string** is a **sequence of characters** — enclosed in **single (' ')** or **double (" ")** quotes.

message = "Welcome to Uber"

✅ Strings are **ordered**, **immutable**, and **indexable**.

# 1. Create a trip summary using f-string and capitalize

driver = "Ravi"

pickup = "Chennai Central"

drop = "Airport"

fare = 430.50

status = "completed"

summary = f"Driver {driver} picked you up from {pickup} and dropped you at {drop}. Fare: ₹{fare}. Status: {status.capitalize()}"

print(summary)

# 2. Mask a mobile number (e.g., Zomato user)

mobile = "9000000000"

masked = mobile[:2] + "\*\*\*\*\*\*" + mobile[-2:] # Mask middle part

print("Masked Number:", masked)

# 3. Format song title and artist name (Spotify)

song = "shape OF you"

artist = "ed SHEERAN"

formatted = f"{song.title()} - {artist.title()}" # Title case both

print(formatted)

# 4. Fix typo in location name using replace

location = "Chenai Central"

fixed\_location = location.replace("Chenai", "Chennai") # Replace wrong text

print("Corrected:", fixed\_location)

# 5. Extract booking ID from message

message = "Your Uber booking ID is: UB102345. Please keep it safe."

booking\_id = message.split(":")[1].split(".")[0].strip() # Extract value from sentence

print("Booking ID:", booking\_id)

# 6. Check if promo code is present in a string

promo\_msg = "Use ZOMATO100 to get 100₹ off on your first order!"

if "ZOMATO100" in promo\_msg: # Check for keyword in message

print("Offer Applied!")

# 7. Find the position of a word in feedback

feedback = "The driver was polite and the ride was smooth"

print("Index of 'polite':", feedback.find("polite")) # Find index of word

# 8. Extract initials from full name

full\_name = "Ravi Kumar"

initials = "".join([word[0].upper() for word in full\_name.split()]) # First letters

print("Initials:", initials)

# 9. Clean extra spaces from user input

dirty\_input = " airport "

cleaned = dirty\_input.strip() # Remove spaces from both sides

print(f"Cleaned location: '{cleaned}'")

# 10. Count number of words in a feedback message

feedback = "The trip was amazing and the car was clean"

word\_count = len(feedback.split()) # Count number of words

print("Word Count:", word\_count)

## **🧠 What is "" .join() in Python?**

### **✅ It is a string method used to join a list of strings into one single string.**

Syntax:

separator.join(iterable)

* separator → the string that will come **between** each item
* iterable → list (or anything loopable) that contains **only strings**

### **💡 Think of it like:**

You have multiple string parts, and you want to **glue** them together using a separator like " " (space), "," (comma), or "" (no space at all).

## **✅ Example 1: Join with space " "**

words = ["Uber", "ride", "completed"]

sentence = " ".join(words)

print(sentence)

🧾 Output:

Uber ride completed

## **✅ Example 2: Join with no space "" (used for initials)**

letters = ["R", "K"]

initials = "".join(letters)

print(initials)

🧾 Output:

RK

✅ This is what we used in the earlier example to combine first letters of a name.

### **About the Author**

**Gowtham SB** is a **Data Engineering expert, educator,** **and content creator** with a passion for **big data technologies, as well as cloud and Gen AI** . With years of experience in the field, he has worked extensively with **cloud platforms, distributed systems, and data pipelines**, helping professionals and aspiring engineers master the art of data engineering.

Beyond his technical expertise, Gowtham is a **renowned mentor and speaker**, sharing his insights through engaging content on **YouTube and LinkedIn**. He has built one of the **largest Tamil Data Engineering communities**, guiding thousands of learners to excel in their careers.

Through his deep industry knowledge and hands-on approach, Gowtham continues to **bridge the gap between learning and real-world implementation**, empowering individuals to build **scalable, high-performance data solutions**.

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