

## 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 = "Chennai Central"
fixed_location = location.replace("Chennai", "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 ZOMAT0100 to get 100₹ off on your first order!"
if "ZOMAT0100" 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)
```

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## 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**

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### 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).

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## ✓ Example 1: Join with space " "

```
words = ["Uber", "ride", "completed"]  
sentence = " ".join(words)  
print(sentence)
```

📄 Output:

```
Uber ride completed
```

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## ✓ 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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