**# What is an f-string in Python?**

**# An f-string (short for formatted string) is a way to insert variables or expressions inside a string using {}.**

name = "Atharva"

print(f"Hello, {name}!")

**# placeholder**

age = 20

print(f"I am {age} years old.")

**## Expressions inside:**

a = 10

b = 5

print(f"Sum is {a + b}")

**## Cleaner than + or .format()**

pi = 3.14159

print(f"Value of pi is {pi:.2f}")

**## Display the price with 2 decimals:**

price = 59

txt = f"The price is {price:.2f} dollars"

print(txt)

**# You can perform math operations on variables:**

price = 59

tax = 0.25

txt = f"The price is {price + (price \* tax)} dollars"

print(txt)

**# You can perform if...else statements inside the placeholders:**

price = int(input("plese enter the price: "))

txt = f"It is very {'Expensive' if price>50 else 'Cheap'}"

print(txt)

**Execute Functions in F-Strings**

fruit = "apples"

txt = f"I love {fruit.upper()}"

print(txt)

**# Use a comma as a thousand separator:**

price = 59000

txt = f"The price is {price:,} dollars"

print(txt)

**# Multiple Values**

**# If you want to use more values, just add more values to the format() method:**

quantity = 3

itemno = 567

price = 49

myorder = "I want {} pieces of item number {} for {:.2f} dollars."

print(myorder.format(quantity, itemno, price))

**## Named Indexes**

myorder = "I have a {carname}, it is a {model}."

print(myorder.format(carname = "Ford", model = "Mustang"))

**# .format() function is used to insert values into a string**