# **✅ What is a Composed Function?**

A **composed function** is when the **output of one function becomes the input of another** — like f(g(x))

## **🔥 Super Simple Example**

### **🎯 Task:**

You want to take a number → double it → then square it.

### **🔹 Step 1: Define simple functions**

def double(x):

return x \* 2

def square(x):

return x \*\* 2

### **🔹 Step 2: Compose them manually**

def composed(x):

return square(double(x)) # f(g(x)) → square of (x \* 2)

### **🔹 Usage**

print(composed(3)) # 36

# double(3) = 6 → square(6) = 36

## **🧠 Summary:**

| **Function** | **Output** |
| --- | --- |
| double(3) | 6 |
| square(6) | 36 |
| composed(3) | square(double(3)) = 36 |

### **✅ TL;DR:**

Composed function = f(g(x))  
 Apply g() first → pass result to f()

### **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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