Random Message Generator - Code Explanation

# 🎯 Purpose

This script dynamically creates a personalized message by selecting a random message template from a predefined list and inserting the user's name into the message.

# 🧾 Python Code

import random  
  
# List of possible message templates  
message\_templates = [  
 "Hello {name}, how are you today?",  
 "Good morning {name}! Have a great day!",  
 "Hey {name}, just checking in. Let's catch up soon!",  
 "Hi there {name}, hope you're doing well!",  
 "Greetings {name}! Hope your day is going smoothly."  
]  
  
# Function to generate a random message  
def generate\_random\_message(name):  
 message\_template = random.choice(message\_templates)  
 return message\_template.format(name=name)  
  
# Example usage  
name = "Nidhi"  
random\_message = generate\_random\_message(name)  
print(random\_message)

# 🔍 Explanation

## 1. Import random module

Used to select a random message template using `random.choice()` function.

## 2. Message templates

A list of strings with `{name}` as a placeholder to be replaced later by a real name.

## 3. Function to generate message

The function `generate\_random\_message(name)`:  
- Picks a random template.  
- Inserts the given name into the message using `str.format()`.

## 4. Example usage

The name `Nidhi` is used as input, and a random personalized message is generated and printed.

# ✅ Sample Output

"Hey Nidhi, just checking in. Let's catch up soon!"  
\*(Random message may vary each run)\*

# 📌 Use Cases

- Personalized greetings.  
- Chatbot or virtual assistant responses.  
- Automated notifications or email messages.