

The Code's Journey: Building a Python Program in Five Days

An analysis of the step-by-step creation of a Personal Introduction Program, demonstrating core Python fundamentals.

```
..is --- created python █
```

Based on the Week 1 Task for The Developers Arena Internship
by Mehul Chaudhary.

The Project Objective: A Personal Introduction

The goal was to create a Python program that asks a user for their name, age, and hobby, then uses that information to display a friendly, personalized welcome message.

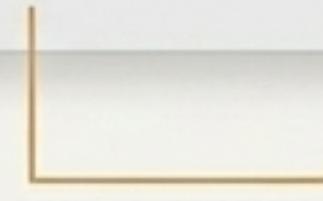
Technical Requirements

- ✓ Use `input()` to get user information.
- ✓ Use variables to store the answers.
- ✓ Use `print()` to display the welcome message.
- ✓ Include at least 3 questions.
- ✓ Ensure the output is friendly and welcoming.

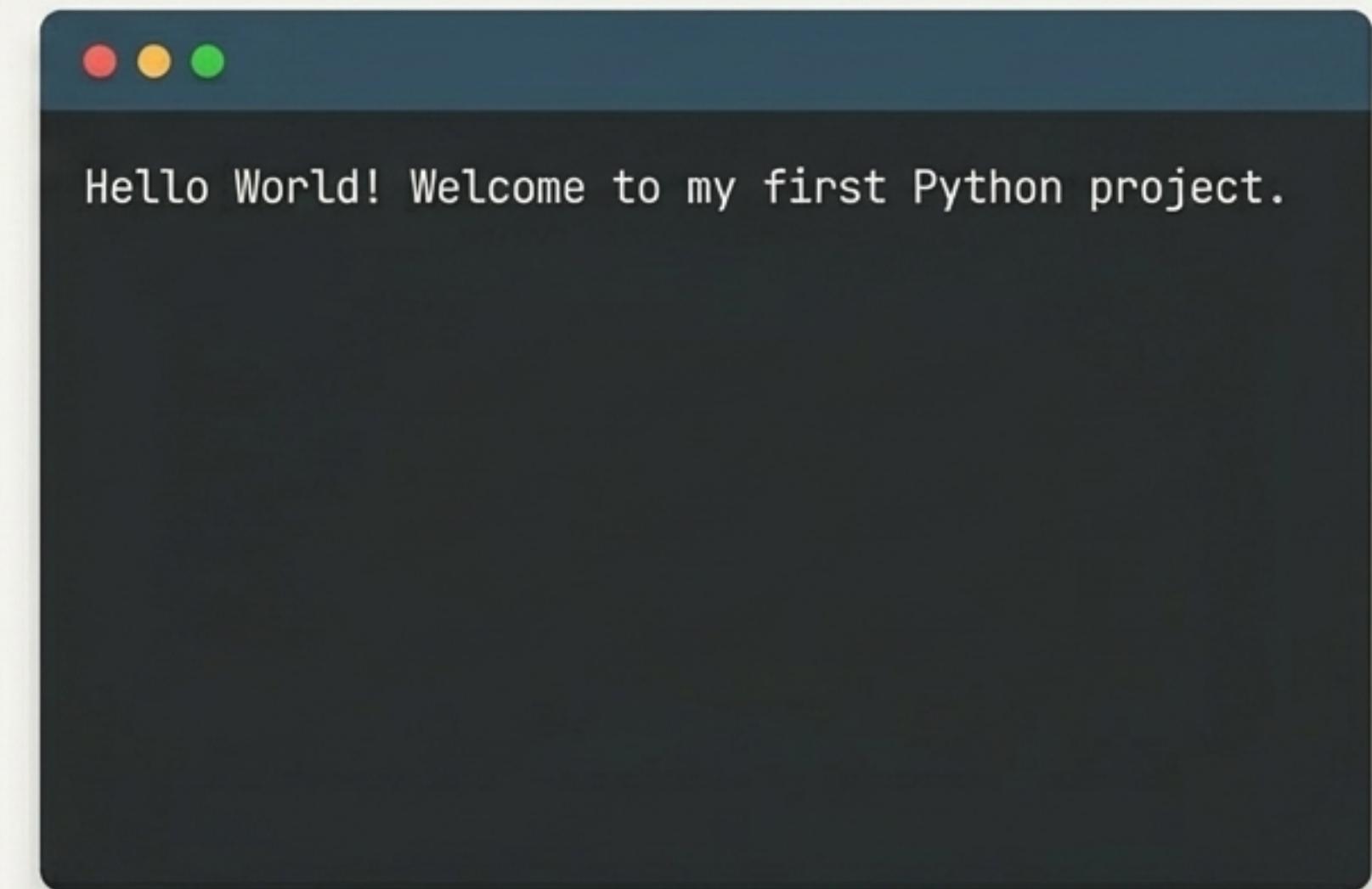
Day 1: The First Line of Code

The journey begins with a single command to display a static message, establishing a baseline for the program's output capabilities.

```
# Day 1: Hello World Program  
  
print("Hello World! Welcome to my first  
Python project.")
```



IBM Plex Serif and Jester code:
Concept: Using the `print()`
function to display text output
to the console.



Day 2: The Program Learns to Listen

The `input()` function is introduced, allowing the program to pause, ask questions, and capture user responses. Each response is stored in a unique variable.

```
# Day 2: Asking Basic Questions
name = input("What is your name? ")
age = input("How old are you? ")
hobby = input("What is your favourite hobby? ")

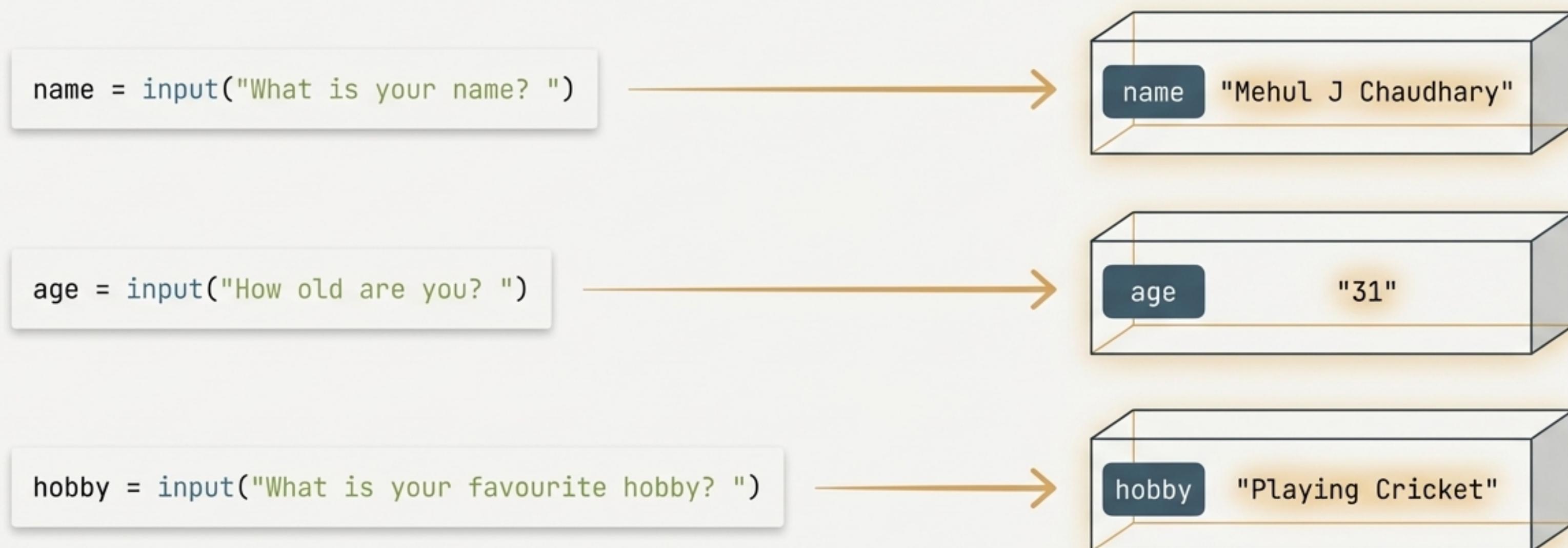
print("Basic input captured successfully.")
```

Concept: Capturing user data with `input()` and assigning it to a variable.

```
>
What is your name? Mehul J Chaudhary
How old are you? 31
What is your favourite hobby? Playing Cricket
Basic input captured successfully.
```

A Closer Look: Storing Information in Variables

Variables act as labeled containers for data. The information gathered via `input()` is stored in memory, ready to be accessed later.

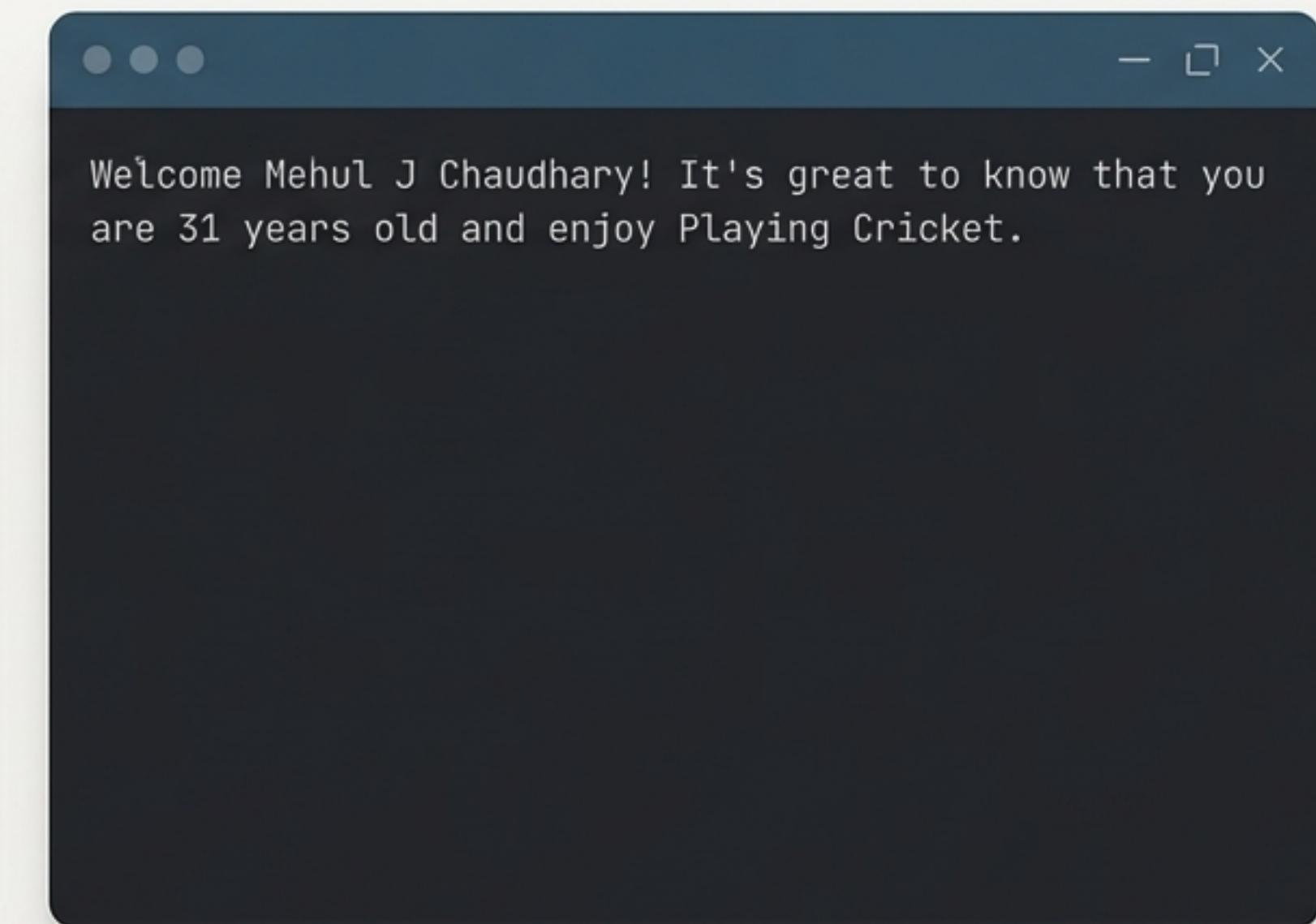


Day 3: The Program Responds Personally

Using an f-string, the program now weaves the stored variables directly into a new sentence, creating a customized welcome message.

```
# Day 3: Displaying a Welcome Message
print(f"\nWelcome {name}! It's great to
know that you are {age} years old and
enjoy {hobby}.")
```

Concept: Using
f-strings for simple and
powerful string
formatting.



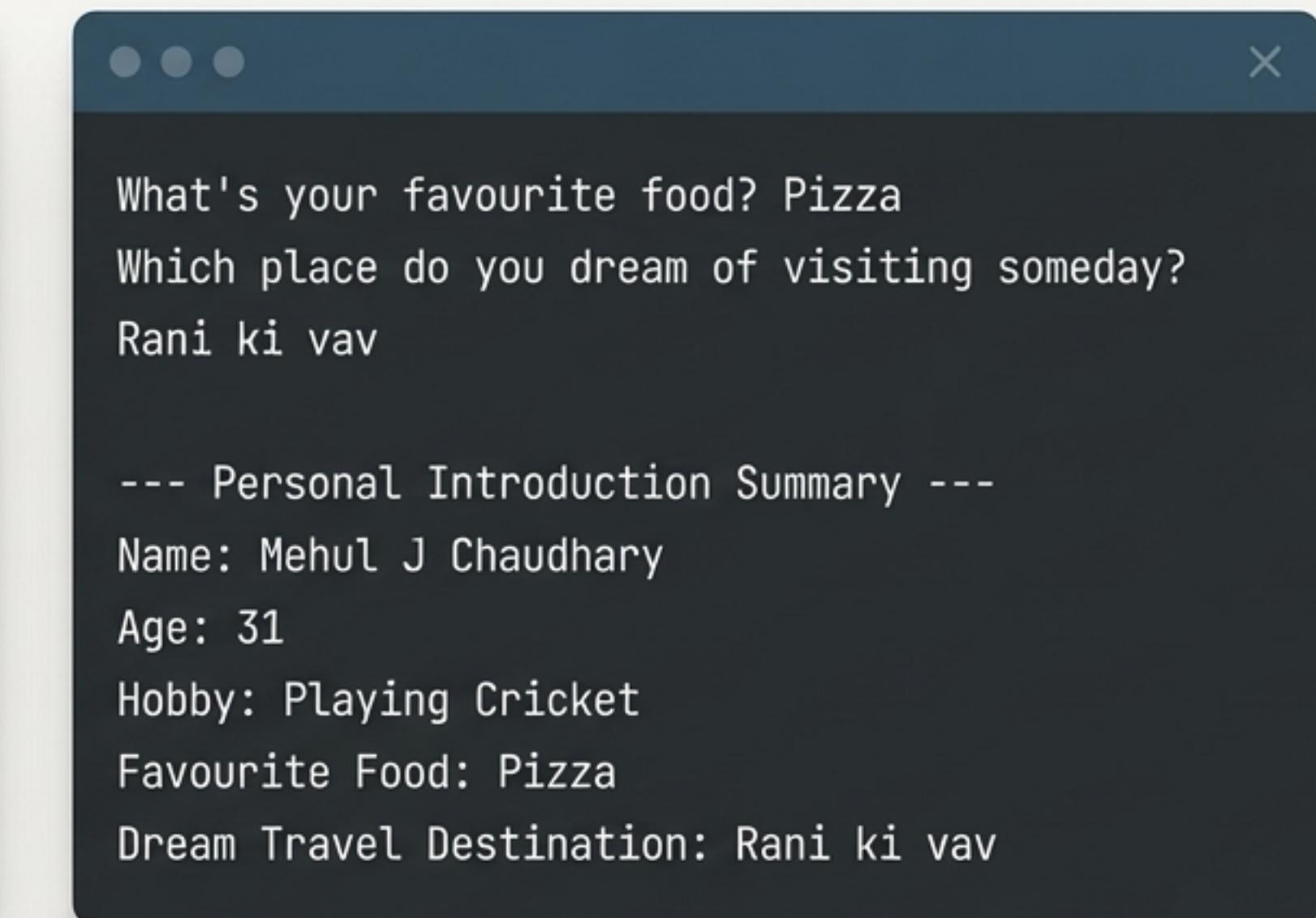
Day 4: Expanding the Conversation and Structure

More questions are added to gather richer data. The output is reformatted from a single sentence into a structured summary for clarity.

```
# Day 4: Additional Questions + Improved Formatting

favorite_food = input("What's your favourite food?
")
dream_place = input("Which place do you dream of
visiting someday? ")

print("\n--- Personal Introduction Summary ---")
print(f"Name: {name}")
print(f"Age: {age}")
print(f"Hobby: {hobby}")
print(f"Favourite Food: {favorite_food}")
print(f"Dream Travel Destination: {dream_place}")
```



```
What's your favourite food? Pizza
Which place do you dream of visiting someday?
Rani ki vav

--- Personal Introduction Summary ---
Name: Mehul J Chaudhary
Age: 31
Hobby: Playing Cricket
Favourite Food: Pizza
Dream Travel Destination: Rani ki vav
```

Day 5: The Final, Polished Program

The culmination of the week's work: a clean, fully-commented script with improved user prompts and a professional, well-formatted output block.

Code is documented with comments for clarity.

Type casting is used to correctly handle the age as a number.

Output is wrapped in a formatted block for a polished user experience.

```
# Day 5 – Final Personal Introduction Program
# -----
# Collect user information using input
# -----
name = input("Enter your name: ")
age = int(input("Enter your age: "))
city = input("Enter your city: ")
hobby = input("Enter your favourite hobby: ")
favorite_food = input("What's your favourite food? ")
dream_place = input("Where would you love to travel someday? ")

# -----
# Display the final personalized welcome message
# -----
print("\n====")
print(" MY INTRODUCTION")
print("====")
print(f"Hello! My name is {name}.")
print(f"I am {age} years old and currently living in {city}.")
print(f"I enjoy {hobby}, and my favourite food is {favorite_food}.")
print(f"I dream of visiting {dream_place} someday.")
print("Nice to meet you!")
print("====")
```

The Final Program in Action

The executed script provides a seamless user interaction and delivers a perfectly formatted, personalized introduction.

```
X ● ● — ↗  
Enter your name: Mehul J Chaudhary  
Enter your age: 31  
Enter your city: Palanpur  
Enter your favourite hobby: Playing cricket  
What's your favourite food? Pizza  
Where would you love to travel someday? Rani ki vav  
=====  
MY INTRODUCTION  
=====  
Hello! My name is Mehul J Chaudhary.  
I am 31 years old and currently living in Palanpur.  
I enjoy Playing cricket, and my favourite food is Pizza.  
I dream of visiting Rani ki vav someday.  
Nice to meet you!  
=====
```

From a Single Line to a Dynamic Application

Each day introduced a fundamental building block, progressively increasing the program's capability and sophistication.



`print()` -> Program can speak.



`input()` & `variables` -> Program can listen and remember.



`f-strings` -> Program can respond personally.



Structure & Formatting -> Program can communicate clearly.



Comments & Polish -> Program is complete and professional.

Core Python Concepts Demonstrated

The successful completion of this project showcases a practical understanding of the following Python fundamentals.

Displaying Output

Effective use of the `print()` function.

Capturing User Data

Implementation of the `input()` function for interactive prompts.

Storing Information

Correctly assigning and using variables to hold data.

String Formatting

Dynamic string creation with f-strings.

Data Types

Use of `int()` for basic type casting.

Code Readability

Application of comments and formatting for clean, understandable code.