# **My Personal Diary**

Generated on: April 12, 2025

**Selected Entries: 1** 

### **PYTHON**

Date: 2025-04-12 | Mood: (pensive\_face)

Tags: Challenges

## **■** Introduction to Python

#### What is Python?

BOLD BLOCK 1, BOLD BLOCK 2, and BOLD BLOCK 3 programming language.

It is known for its BOLDBLOCK0, BOLDBLOCK1, and wide range of BOLDBLOCK2.

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#### **■** Why Learn Python?

- Easy to learn for beginners
- Used in web development, data science, AI, automation, and more
- Large community and library support
- Works on all platforms

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#### **■** Basic Python Syntax

```
# Print to the console print("Hello, Python!")

# Variables name = "Ayesha" age = 25 is_student = True

# Conditional Statements if age > 18: print("Adult") else:
print("Minor")

# Loops for i in range(5): print("Iteration", i)

# Functions def greet(name): return f"Hello, {name}!"
print(greet("Ayesha"))
```

```
# Lists fruits = ["apple", "banana", "cherry"]
fruits.append("mango") print(fruits)

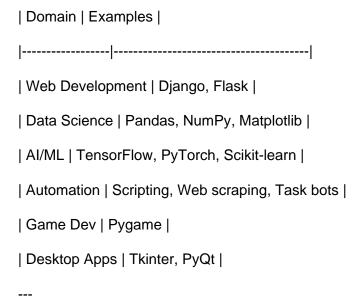
# Dictionaries student = { "name": "Ali", "age": 20, "grade": "A" }
print(student["name"])

# Exception Handling try: x = 10 / 0 except ZeroDivisionError:
print("You can't divide by zero!")

# Classes & Objects class Person: def __init__(self, name):
self.name = name def greet(self): print(f"Hello, my name is
{self.name}") p = Person("Hamza") p.greet()
```

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#### **■** Applications of Python

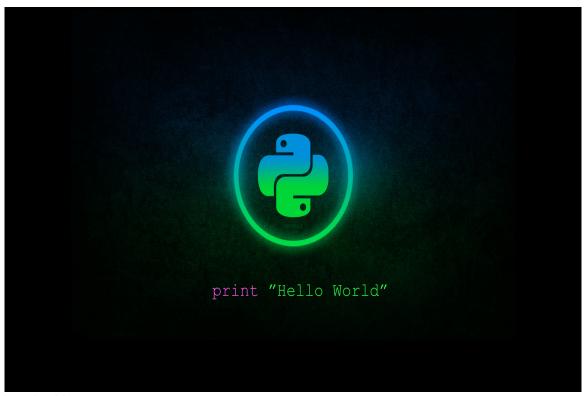


#### **■** Final Tip

Keep practicing small Python projects like:

- Calculator
- To-Do App
- Weather App
- Quiz App
- Chatbot
- Web scraper

#### Happy Coding! ■■



Attached Image