# Python Fundamentals Mastery Quiz: Test Your Basics and Build Confidence

Here's a list of quizzes based on the topics covered so far to help reinforce your understanding. These quizzes include questions on Python basics, input/output, and syntax.

#### **Quiz 1: Python Basics**

- 1. What is Python, and why is it widely used?
- 2. Name three key features of Python.
- 3. What is the purpose of the # symbol in Python?
- 4. How is indentation significant in Python?
- 5. Write a Python statement to print: Hello, Python World!.
- 6. True or False: Python requires you to declare variable types explicitly.
- 7. Which of the following is a valid variable name in Python?
  - o a. 123abc
  - o b. \_variableName
  - o c. my-variable

### **Quiz 2: Writing and Running Python Scripts**

- 1. What is the file extension for Python scripts?
- 2. How do you run a Python script from the terminal or command prompt?

What does the following code output? print("Hello", "World", sep="-", end="!!!")

- 3.
- 4. True or False: Comments in Python are executed by the interpreter.

## **Quiz 3: Input and Output**

1. Which function is used to display output in Python?

How do you display the following message using a single print() statement? Welcome to Python Programming!

Let's learn together.

- 2.
- 3. What function is used to take user input in Python?

```
Predict the output of the following code:
name = input("Enter your name: ")
print("Hi, " + name + "!")
```

- 4.
- 5. How do you convert the input value to an integer? Write an example.

```
What happens if a user enters a non-numeric value in this code? age = int(input("Enter your age: ")) print("You are", age, "years old.")
```

6.

#### **Quiz 4: String Formatting and Operations**

```
Rewrite the following using an f-string:
name = "Alice"
print("Hello, {}!".format(name))
```

1.

```
What does this code output? print("Python", "is", "fun", sep="*")
```

- 2.
- 3. How do you add a newline at the end of your print output explicitly?
- 4. True or False: input() always returns a string.

## **Quiz 5: Code Output Prediction**

```
Predict the output:
print("A", "B", "C", sep="-", end="***")
print("D")

1.

What is the output of this program?
x = input("Enter a number: ")
```

```
print(type(x))

2.

What happens if the user provides abc as input for this code?

num = int(input("Enter a number: "))

print(num * 2)

3.

Identify and fix the error in this code:

if True

print("Valid")

4.
```

#### **Quiz 6: Practical Programming Tasks**

- 1. Write a Python script that:
  - o Asks the user for their name and age.
  - Prints a greeting and tells them their age next year.
- 2. Write a program to ask the user for two numbers, add them, and display the result.

Fix the indentation error in the following code:

```
x = 10
if x > 5:
print("x is greater than 5")
```

3.

4. Write a Python script that takes a sentence as input and prints it twice on the same line, separated by a \*.

These quizzes combine multiple-choice, fill-in-the-blank, and practical coding exercises to strengthen your understanding of Python fundamentals