

Very Basic Python Questions on Variables, Strings, and Type Casting

Variables – Basics

1. What is a variable in Python?
2. How do you declare a variable in Python?
3. Can you change the value of a variable after declaring it in Python?
4. Does Python require declaring the variable type?
5. What will happen if you use a variable before assigning a value to it?
6. Is Python a case-sensitive language for variable names?
7. Can a variable name start with a number in Python?
8. What symbols are allowed in variable names apart from letters and numbers?
9. Is `my_var` the same as `My_Var` in Python?
10. What is the difference between assignment `=` and equality `==` in Python?

Variables – Data Types & Examples

1. How do you assign an integer value to a variable?
2. How do you assign a floating-point value to a variable?
3. How do you assign a string value to a variable?
4. What is the type of variable `x = True`?
5. How do you check the type of a variable?
6. Can a variable change its type after assignment?
7. What will be the type of `x = 3 + 4.5`?
8. Give an example of assigning multiple variables in one line.
9. What is dynamic typing in Python?
10. What will happen if you assign `x = "5"` and then do `x = x + 2`?

Strings – Basics

1. How do you define a string in Python?
2. What is the difference between single and double quotes in strings?
3. How do you create a multi-line string?
4. How do you find the length of a string?
5. How do you access the first character of a string?
6. What is string slicing?
7. What does `my_str[0:3]` return if `my_str = "Python"`?
8. How do you concatenate two strings?
9. What is the result of `"Hello" * 3`?
10. Are strings mutable or immutable in Python?

Type Casting – Basics

1. What is type casting in Python?
2. How do you convert a string `"123"` to an integer?
3. How do you convert a float `3.5` to an integer?
4. How do you convert an integer `5` to a string?

5. What happens if you try to convert a string `"abc"` to an integer?
6. How do you convert a string `"3.14"` to a float?
7. What will be the result of `int(3.99)` ?
8. How do you check if a variable can be converted to a number safely?
9. What is the difference between `str()` and `repr()` in Python?
10. How do you convert a boolean `True` to an integer?