

PYTHON CLASSES, SCOPE, STRING FORMAT, TRY ... EXCEPT

Objective Type Questions:

1. What is the primary purpose of classes and objects in Python?
 - A) To organize code into reusable components
 - B) To perform mathematical operations efficiently
 - C) To control the flow of program execution
 - D) To handle file input/output operations
2. Which keyword is used to implement inheritance in Python?
 - A) extends
 - B) inherit
 - C) superclass
 - D) class
3. Which of the following statements about variable scope in Python is true?
 - A) Local variables are accessible only within the function where they are defined.
 - B) Global variables can be accessed only within the module where they are defined.
 - C) Nonlocal variables are accessible only within the class where they are defined.
 - D) Global variables can be accessed from anywhere in the program.
4. What is the purpose of formatting strings in Python?
 - A) To convert strings to uppercase
 - B) To concatenate strings
 - C) To replace placeholders with variable values
 - D) To split strings into substrings
5. What is the main advantage of using try-except blocks in Python?
 - A) They improve the performance of the code.
 - B) They make the code more readable.
 - C) They handle errors and exceptions gracefully.
 - D) They allow Python to ignore syntax errors.



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Code Questions:

6. Write a Python class named `'Rectangle'` with attributes `'length'` and `'width'`, and a method `'area()'` that returns the area of the rectangle.
7. Define a class `'Square'` that inherits from the `'Rectangle'` class defined in question 6. Add a method `'perimeter()'` to calculate the perimeter of the square.
8. Write a Python function `'calculateAge()'` that takes the year of birth as input and returns the age. Handle any potential errors using a try-except block.
9. Write a Python program that prompts the user to enter their name and age, then prints a greeting message along with their age.
10. Define a function `'divideNumbers()'` that takes two numbers as input and returns the result of dividing the first number by the second. Handle the `ZeroDivisionError` using a try-except block.



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Want to Become a Python Expert?

If you're serious about learning Python and getting ready for Data Analysis or Web Development roles using Python, I highly encourage you to enroll in my Complete Python Course. Don't waste your time following disconnected, outdated tutorials.

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- Watch it online or download and watch offline
- One on one training with me 2-4 times a week

Sincerely,



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