
Python Beginner Coding Test (40 Coding Questions)

Section A: Data Types & Basic Operations (1–10)

1. Create a variable called `name` and assign it your name. Print it.
 2. Create two integer variables and print their sum, difference, product, and division.
 3. Write a program to swap two numbers without using a third variable.
 4. Write a program that takes user input for age and prints “Adult” if $\text{age} \geq 18$, otherwise “Minor”.
 5. Given a string `"programming"`, print the number of times the letter '`g`' appears.
 6. Write a program that converts a given string `"100"` to an integer and adds 25 to it.
 7. Write a program to find the largest number in the list `[4, 9, 1, 7, 3]`.
 8. Write a program to reverse the list `[1, 2, 3, 4, 5]`.
 9. Create a dictionary with keys `name`, `age`, and `country`, and print the value of `age`.
 10. Write a program to convert a tuple `(2, 4, 6, 8)` into a list and print it.
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Section B: Conditional Statements (11–18)

11. Write a program to check whether a number entered by the user is even or odd.
12. Write a program to check if a given number is positive, negative, or zero.
13. Write a program to check if a given year is a leap year.
14. Write a program that takes two numbers and prints which one is greater.

15. Write a program that takes marks as input and prints “Pass” if marks ≥ 50 , otherwise “Fail”.
 16. Write a program that checks whether a character entered by the user is a vowel or consonant.
 17. Write a program that takes three numbers and prints the largest among them.
 18. Write a program that checks if a number is divisible by both 3 and 5.
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Section C: Loops & Nested Loops (19–28)

19. Write a program that prints numbers from 1 to 10 using a `for` loop.
 20. Write a program that prints all even numbers from 1 to 20.
 21. Write a program that calculates the sum of all numbers from 1 to 100 using a `for` loop.
 22. Write a program that prints each letter of the word “PYTHON” on a new line.
 23. Write a program that counts how many numbers between 1 and 50 are divisible by 5.
 24. Write a program that prints all elements of a list using a `while` loop.
 25. Write a program that finds the factorial of a given number using a loop.
 26. Write a program that prints all numbers between 1 and 30 that are divisible by both 2 and 3.
 27. Write a program that prints the squares of all numbers from 1 to 10.
 28. Write a program using nested loops to print all pairs `(i, j)` where `i` and `j` range from 1 to 3.
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Section D: Functions (29–36)

29. Write a function called `greet()` that prints “Hello, World!”.
30. Write a function that takes a name as an argument and prints “Hello, !”.

31. Write a function that takes two numbers and returns their sum.
 32. Write a function that returns the largest of three numbers.
 33. Write a function that takes a list of numbers and returns the sum of all elements.
 34. Write a function that checks if a given number is prime.
 35. Write a function that takes a list of numbers and returns a new list with only even numbers.
 36. Write a function that takes a string and returns the number of vowels in it.
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Section E: Classes & Objects (37–40)

37. Create a class `Person` with attributes `name` and `age`, and a method `introduce()` that prints “My name is and I am years old.”
 38. Create a class `Rectangle` with attributes `length` and `width`, and a method `area()` that returns the area.
 39. Create a class `BankAccount` with methods `deposit()`, `withdraw()`, and `check_balance()`.
 40. Create a class `Student` with attributes `name` and `marks`, and a method `grade()` that prints “Pass” if `marks ≥ 50`, otherwise “Fail.”
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