Python Basics: 20 Questions on Variables and Data Types

📈Primitive Data Types

(int, float, str, bool)

1. Create a variable `x` and assign the value `10` to it. Print `x`.

2. Create two variables: `a = 5`, `b = 3.2`. Print their sum and check the type of each.

3. Store your name in a variable `my_name` and print it.

4. Create a variable `is_student` and assign it the value `True`. Print the variable and its type.

5. Convert the integer `100` into a string and print the result with its type.

6. Take a string `"45"` and convert it into an integer. Add 5 and print the result.

7. Create a variable `temperature` and assign a float value. Convert it to integer and print.

8. Write a program to input your age and print a message like: `"You are 25 years old."`

9. Concatenate two strings: `"Hello"` and `"Python"` and print the result.

10. Check and print the type of each: `23`, `"hello"`, `3.14`, `True`

📉Non-Primitive Data Types

(list, tuple, set, dict)

11. Create a list of 5 fruits and print the list.

12. Create a tuple of 3 numbers and print the second item.

13. Create a list of 5 numbers. Replace the third number with a new value and print the list.

14. Create a dictionary with keys: `name`, `age`, `city`. Assign your own values and print the dictionary.

15. From the above dictionary, print only the value of the `city`.

16. Add a new key `gender` to the existing dictionary and print it.

17. Create a list of numbers and print only the even numbers using a loop.

18. Convert a tuple `(1, 2, 3)` to a list and add a new item to it.

19. Create two sets: `{1,2,3}` and `{3,4,5}`. Find and print their intersection.

20. Create a dictionary of 3 students and their marks. Print each student's name with their marks.

End of Questions