



Python-1 Classwork

✓ Beginner Practice Instructions

1. Declare a variable named `school_name` and assign the name of your school or college.
 2. Declare two integer variables `x` and `y`, assign values, and print their sum.
 3. Declare a float variable `height` and assign your height in meters.
 4. Create a variable `is_student` and assign it a Boolean value.
 5. Declare three variables `a`, `b`, `c` in one line with values `1`, `2`, and `3`...
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Intermediate-Level Practice Instructions

6. Convert the string `'123'` to an integer and assign it to a variable `num`.
 7. Convert the float `9.81` to an integer and print the result.
 8. Use the `type()` function to print the data types of: `"Hello"`, `42`, `True`, `3.14`.
 9. Declare a variable `message` with the value `"Python is fun!"`. Use the `len()` function to print the number of characters in it.
 10. Concatenate your first name and last name with a space in between and store it in `full_name`. Then print a greeting: `"Hello, <full_name>!"`
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Application Practice

11. Take two inputs from the user — `first_name` and `last_name`, and print `"Welcome, <first_name last_name>!"`.

12. Create a variable `radius` with value `7`. Calculate the area of a circle using the formula `area = π * radius^2` and print it.
 13. Ask the user to enter their birth year, calculate their age in 2025, and print: "You will be `<age>` years old in 2025."
 14. Create a sentence that says: "John is 25 years old, lives in New York, and is not married." using variables.
 15. Print the ASCII value of the character 'A' using `ord()`.
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Challenging Exercises

16. Swap values of two variables without using a third variable.
 17. Use `input()` to get user's name and city. Print: "Nice to meet you, `<name>` from `<city>`!" in uppercase.
 18. Write a program that takes the side of a square from the user and prints its area and perimeter.
 19. Create a variable `sentence = "Python is powerful"` and reverse it using slicing.
 20. Use a built-in function to count how many times the letter 'a' appears in "I am a data analyst".
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