



Python Assignment – 01

Topics: Variables, Data Types & Operators

Dear Students,

This assignment will help you practice the basics of Python. Please attempt all questions.

Q1: Variables & Data Types

1. Create the following variables:
 - `name` → your full name
 - `age` → your age
 - `is_student` → a boolean value (True/False)
 2. Print all variables in one line.
 3. Print the data type of each variable using `type()`.
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Q2: Arithmetic Operators

Let `x = 20` and `y = 6`.

Perform and print the results of:

- Addition
- Subtraction
- Multiplication
- Division

- Floor Division
 - Modulus
 - Exponent
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Q3: Assignment Operators

Let `num = 10`.

1. Add 5 to `num` using the `+=` operator.
 2. Multiply `num` by 2 using the `*=` operator.
 3. Subtract 4 from `num` using the `-=` operator.
 4. Print the final value of `num`.
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Q4: Comparison Operators

Take `a = 15` and `b = 12`.

Check and print the results of the following comparisons:

- `a > b`
- `a < b`
- `a == b`
- `a != b`
- `a >= b`
- `a <= b`

Q5: Logical Operators

Let `p = True` and `q = False`.

Check and print the result of:

- `p and q`
 - `p or q`
 - `not p`
 - `not q`
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Q6: Real-Life Example

The price of one notebook is **80 rupees**.

- If you buy **7 notebooks**, calculate the total price.
 - If you have **600 rupees**, check (using comparison operator) whether your money is enough to buy them or not.
 - Print the result in a clear message.
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Q7: Bonus (Optional)

Take two numbers as input from the user.

- Print their sum.
 - Print whether the first number is greater than the second number or not.
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Instructions

- Use comments (`#`) to explain each step.
- Keep your code neat and readable.
- Submit the vscode `.py` or google colab file before the deadline.