



## Warm-Up – Quick Questions

Without running code, guess the results:

```
1 + 2 * 3  
(1 + 2) * 3  
10 / 3  
10 // 3  
10 % 3
```

Then open a Python REPL or script file and **verify** your answers.

Why? Getting a “feel” for operator behavior makes later code easier to read.

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## Practice 1 – Simple Calculator

Task:

Create `calculator.py` inside `projects/module2_basics/` that:

1. Asks the user for two numbers.
2. Converts them to `float`.
3. Computes and prints:
  - sum
  - difference
  - product
  - quotient (second not zero)

Example interaction:

```
Enter first number: 10
Enter second number: 3
Sum: 13.0
Difference: 7.0
Product: 30.0
Quotient: 3.33333333333
```

Try adding `rounding` with `round(value, 2)`.

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## Practice 2 – Truth Tables with and / or / not

In `logic_table.py`, without using user input:

1. Create variables `a = True, b = False`.
2. Print a simple truth table:

a	b	a and b	a or b	not a
True	False	False	True	False
...				

Use **f-strings** for clean formatting.

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## Practice 3 – Simple Tip Calculator

tip.py:

1. Ask for bill amount (`float`).
  2. Ask for desired tip percentage (e.g., 10, 15, 20).
  3. Compute tip and total.
  4. Print results with 2 decimal places.
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## Mini Project – Profile Summary

Create `profile.py` that:

1. Asks for:
  - name (`str`)
  - age (`int`)
  - city (`str`)
  - favorite number (`int`)
2. Uses arithmetic to compute:
  - age next year
  - favorite number squared
3. Prints a nicely formatted multi-line summary using an f-string.

Example output:

```
Hello, Ada!
You live in London and next year you will be 37.
Your favorite number 42 squared is 1764.
```

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