LIST - TRAINING TASKS
Function Overloading

- I will only accept tasks submitted **by the deadline**.

- I'll give you feedback on whether the solution is correct or not. The most important thing to me in your code is the **output**.

- The program **must display** some information (e.g., popups or messages) when it receives input or is running in a loop, indicating what action the user should take.

- It will **not** be possible to resend the code.

- An incorrect solution may negatively affect your activity grade.

Exercise 1: Enhanced Pretty Printer (Simplified)

🧠 Goal:

Create a versatile function `pretty_print` that adapts output based on type:

- **int**: show whether it's even/odd
- **float**: display with 2 decimal precision
- **str**: show length and print it in the reverse order
- **dict**: display the number of keys and list key-value pairs
- **Default**: print type and value

🧪 Example usage
```
pretty_print(8)
pretty_print(3.14159)
pretty_print("Hello World
pretty_print("A very long string example to test the reversal and length handling.")
pretty_print({"x": 1, "y": 2})
pretty_print({"name": "Alice", "age": 30, "city": "Wonderland
```

Exercise 2: Shape Area & Perimeter Calculator (Simplified)

🧠 Goal:

Build a calculator using `singledispatch` to compute both **area** and **perimeter** for shape objects.

📐 Supported Shapes:

- `Circle(radius)`
- `Rectangle(width, height)`
- `Triangle(a, b, c)` – assume it forms a valid triangle

```
shapes = [
  Circle(5),
  Rectangle(4, 6),
  Triangle(3, 4, 5),
  Circle(2.5),
  Rectangle(10, 3)
]
```