**Activity: The SRP Challenge**

**Instructions:**

The following code **violates the Single Responsibility Principle (SRP)**—but **there’s a catch!**

🚀 **Your Task:**

1. **Analyze the code** and identify which part **violates SRP**.
2. There is **one function that should actually remain** in the class, but it looks like it might be an SRP violation—**don't be fooled!**
3. **Find the true violation**, explain why, and **refactor the code** to properly follow SRP without removing the function that should stay.

📂 **Filename:** python\_activity\_16.py

class Employee:

def \_\_init\_\_(self, emp\_id, name, salary):

self.emp\_id = emp\_id

self.name = name

self.salary = salary

def calculate\_annual\_salary(self):

return self.salary \* 12

def generate\_payslip(self):

payslip = f"Payslip for {self.name}\nAnnual Salary: ${self.calculate\_annual\_salary()}"

return payslip

def save\_to\_database(self):

print(f"Saving {self.name}'s data to the database...")

def send\_email(self, message):

print(f"Sending email to {self.name}: {message}")

employee = Employee(101, "Alice", 5000)

print(employee.generate\_payslip())

employee.save\_to\_database()

employee.send\_email("Your salary has been processed.")