Class_Act28

Abstraction Activity: Smart Cleaning Equipment (with a Twist!)

Objective:

Reinforce the concept of abstraction while:

- Adding constructor parameters
- Introducing a new method per subclass
- Encouraging use of a loop to interact with multiple objects

Updated Instructions:

- 1. Import ABC and abstractmethod from abc.
- 2. Create an abstract class Cleaner:
 - Attribute: brand
 - Abstract method: start_cleaning()
- 3. Create 3 subclasses:
 - Vacuum
 - Add attribute: power_level
 - start_cleaning() prints:

 "Vacuum [brand] at power level [power_level] is cleaning."
 - Mop
 - Add attribute: water_tank (in liters)
 - start_cleaning() prints:

 "Mop [brand] with [water_tank]L water is cleaning."
 - Sweeper
 - Add attribute: speed
 - start_cleaning() prints:

 "Sweeper [brand] running at [speed] RPM is cleaning."
- 4. Create a list of all 3 cleaners and use a loop to call start_cleaning() on each.