Lab 6

Question 1

The Factory Design Pattern is super useful because it simplifies the process of creating objects, especially when the exact type of object might not be known until runtime. Instead of directly instantiating objects, which can get messy and hard to maintain, a factory handles the creation logic. This keeps your code clean and organized, making it easier to manage and extend. For example, if you need to add a new type of car in a car inventory system, you just update the factory method without touching other parts of your code. This also promotes loose coupling since the code that uses the objects doesn't need to know about the details of how they are created. Overall, the Factory Design Pattern helps in writing more modular, scalable, and maintainable code.

