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| Principle | Classes that follow this  principle | Reasons |
| Single Responsibility  Principle (SRP) | 1. ParkingLot.java 2. PersonalInfo.java 3. AccountInfo.java 4. Admin.java 5. Empolyee.java 6. VehicleOwnerInfo.java 7. Vehicle.java 8. myValidation.java | 1. Each class has only one job to do it 2. There is only one reason for each class to change or update |
| Open/Closed Principle  (OCP) | 1. ParkingLot.java 2. PersonalInfo.java 3. AccountInfo.java 4. Admin.java 5. Empolyee.java 6. VehicleOwnerInfo.java 7. Vehicle.java 8. myValidation.java | 1. Each class is closed for modification and open for any extensions 2. Like PersonalInfo.java and AccountInfo.java, abstracted classes that are used for obeying O/C principle |

**Solid Principles:**

**Design patterns:**

Singleton pattern:

* We apply the rules of singleton pattern in our class ParkingLot.java
* We can only make one instance from this class and any client class use this class it will use this instance