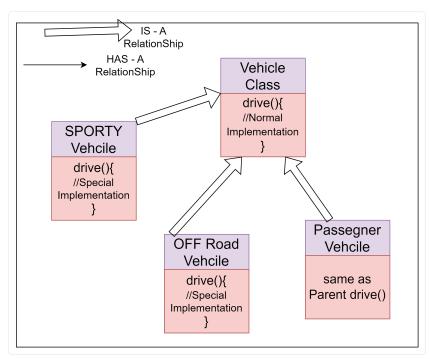
Strategy Design Pattern explanation.

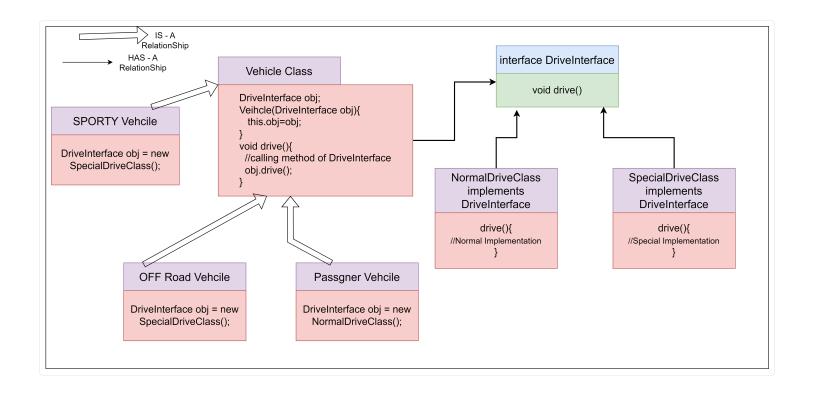
1. What is Strategy Design Pattern?.

☐ IS - A Relation Ship

- >HAS A RelationShip.
 - There is a base class Vehicle and there is a method called drive() which have nprmal capability.
 - Vehicle has multiple class like PassengerVehcile, OffRoadVehcile and SPORTY_Vehcile,
 - OffRoadVehcile and SPORTY_Vehcile Given same special capability on child level to drive method.
 - Code duplicay at child level for drive method.
 - more special feature, brings more special implementation for overridien method at child level lead's to code duplicacy.
- Less Code Reusability.



To Solve that problem we are using **Strategy Design Pattern.**



```
package System_Design.DesignPatterns;
interface DriveInterface{
    void drive(String Strategy);
}
class NormalDriveStrategy implements DriveInterface{
    @Override
    public void drive(String Strategy) {
        System.out.println(Strategy);
}
class SpecialDriveStrategy implements DriveInterface{
    @Override
    public void drive(String Strategy) {
        System.out.println(Strategy);
}
class Vehicle{
    DriveInterface obj;
    String Strategy;
    Vehicle(DriveInterface obj,String Strategy){
        this.obj = obj;
        this.Strategy=Strategy;
    }
```

```
public void drive(){
        obj.drive(Strategy);
    }
}
class OffRoadVehicle extends Vehicle{
    OffRoadVehicle(){super(new SpecialDriveStrategy(), "SpecialDriveStrategy OffRoad");}
}
class SPORTSVehicle extends Vehicle{
    SPORTSVehicle(){super(new SpecialDriveStrategy(), "SpecialDriveStrategy SPORTS");}
}
class PassegerVehicle extends Vehicle{
    PassegerVehicle(){super(new NormalDriveStrategy(), "NormalDriveStrategy Passenger");}
}
public class StrategyDesignPatterns {
    public static void main(String[] args){
        Vehicle vehicle = new SPORTSVehicle();
        vehicle.drive();
    }
//OUPUT:
SpecialDriveStrategy SPORTS
Process finished with exit code 0
```