Inheritance

Objective: To understand Inheritance and its application

**Scenario 1**: Here There will be Inheritance, because the travel class has all common details like, source, destination, date and time, ticket details which are all part of Flight, Train as well as Bus.

So, all these details we can put in Travel Super class and inherit all of them in the subclasses.

There will be three sub classes. Flight, Train and Bus which will have their own different travel class type

Class Structure will be:

Class Travel { String source, String destination, Date date, String details }

Class Flight extends Travel { String type – economy or business}

Class Bus extends Travel {String type = Class 2 or Class 1}

Class Train extends Travel {String type – AC or NON AC}

**Scenario 2:** Even In this scenario, there will be Inheritance because the all the 3 classes have few things in common. Property amount and method calculateCharge() can be put in a Super Class Travel (which can also be a abstract class) and all the other three classes can override that method.

Class Travel { int amount, method calculateCharge() }

All other 3 class : @Override calculateCharge() {}