Assignment 4 :
A passenger of Kaveri travels can travel by two types of ticket reservations,
Confirmed ticket and Requested ticket. The Travel Reservation has various
Attributes, such as bus service number, date, time and destination. Both types of classes inherit these common
attributes. The Confirmed ticket class would however have a seat number while a Requested ticket would have a
status attribute. Draw the class hierarchy diagram for the three class depicting the inherited attributes of the sub
classes and their individual attributes.

```java
import java.util.Scanner;

class RequestedTicket {
        void request() {
                Scanner rt = new Scanner(System.in);
                System.out.println("Check Available Tickets");
                int avalibility = rt.nextInt();
                if (avalibility == 1) {
                        System.out.println("First Class Available");
                        System.out.println("Enter your Name");
                        String pname = rt.next();
                        System.out.println("Enter your Phone Number");
                        double pno = rt.nextDouble();
                        System.out.println("Your ticket is Requested");
                } else if (avalibility == 2) {
                        System.out.println("Not Available");
                }
        }
}

class ConformedTicket extends RequestedTicket {static int seatno;static double Phonenumber;static String name;
        void conformed() {
                Scanner ct = new Scanner(System.in);
                ConformedTicket bc = new ConformedTicket();
                System.out.println("Check Available Tickets");
                int avalibility = ct.nextInt();
                if (avalibility == 1) {
                        System.out.println("Enter your Name");
                        String pname = ct.next();name=pname;
                        System.out.println("Enter your Phone Number");
                        double pno = ct.nextDouble();Phonenumber=pno;
                        System.out.println("Available seat numbers are 20" + "\n"
                                        + "Enter your Desired Seat Number");
                        int sno = ct.nextInt();
                        if (sno >= 1 && sno <= 20) {seatno=sno;
                                System.out.println("Your ticket is Conformed");

        System.out.println(KaveriTravels.sdestination+"\n"+KaveriTravels.stime+"\n"+KaveriTravels.sdate+"\n"+
ConformedTicket.seatno);

        System.out.println(ConformedTicket.name+"\n"+ConformedTicket.Phonenumber);
                        } else {
                                System.out.println("Not applicable");
                        }
                } else if (avalibility == 2) {
                        System.out.println("Tickets not Available"+"\n"+"Waiting list");
                        bc.request();//calling request method
                }
        }
```

```java
        }

public class KaveriTravels extends ConformedTicket {
        static int destination, date, time;
static String sdestination,stime,sdate;
        public static void main(String[] args) {
                Scanner bt = new Scanner(System.in);
                KaveriTravels ab = new KaveriTravels();

                System.out.println("Welcome to KaveriTravels" + "\n"
                                + "Avalible Busses" + "\n" + "1.Hyderabad" + "\n"
                                + "2.Nizamabad" + "\n" + "Give your Destination Choice");
                destination = bt.nextInt();
                if (destination == 1) {
                        sdestination="Hyderabad";
                        System.out.println("Dates of Bus");
                        System.out.println("1.7/sep/2015" + "\n" + "2.12/sep/2015" + "\n"
                                        + "3.14/sep/2015");
                        // System.out.println("Enter j");
                        date = bt.nextInt();
                        if (date == 1) {sdate="Sep 7 2015";
                                System.out.println("Sep 7 2015" + "\n" + "Timings of Bus"
                                                + "\n" + "1.9Am" + "\n" + "2.12Am"+"\n"
                                                + "Give your Desired Time");
                                time = bt.nextInt();
                                if (time == 1) {
                                        stime="9Am";
                                        System.out.println("Bus No:500" + "\n" +  "Reserve Tickets" );
                                        ab.conformed();
                                } else if (time == 2) {
                                        stime="2.12Am";
                                        System.out.println("Bus No:501" + "\n" + "Reserve Tickets");
                                        ab.conformed();
                                } else {
                                        System.out.println("Stop");
                                }
                        } else if (date== 2) {sdate="12/sep/2015";
                                System.out.println("Sep 12 2015" + "\n" + "Timings of Bus"
                                                + "\n" + "5Am" + "\n" + "11AM" + "\n"
                                                + "Give your Desired Time");
                                time = bt.nextInt();
                                if (time == 1) {
                                        stime="5Am";
                                        System.out.println("Bus No:600" + "\n" + "Reserve Tickets");

                                        ab.conformed();
                                } else if (time == 2) {
                                        stime="11AM";
                                        System.out.println("Bus No:601" + "\n" + "Reserve Tickets");
                                        ab.conformed();
                                } else {
                                        System.out.println("Stop");
                                }
                        }
                } else if (destination == 2) {
```

```java
                    sdestination="Nizamabad";
                    System.out.println("Busses Not Avaliable");
            }
        }
}
```