* **Login code :**

**package** AirlineResevationSystem.Assignment1;

**import** java.util.Scanner;

**public** **class** AllowLogin {

**public** **static** **void** main(String[] args) {

Scanner sc = **new** Scanner(System.***in***);

RegPassenger obj = **new** RegPassenger();

//obj Passenger;

System.***out***.println("user id ");

String user = sc.next();

System.***out***.println("password ");

String password = sc.next();

obj.login( user, password);

}

}

* **Data Checker Code :**

package AirlineResevationSystem.Assignment1;

import java.text.SimpleDateFormat;

import java.util.Date;

import com.sun.tools.javac.parser.ReferenceParser.ParseException;

public class DateChecker {

public boolean isValid(String date, String flightDate) throws ParseException {

//method for checking date is available or not

SimpleDateFormat sdfo = new SimpleDateFormat("dd-mm-yyyy");

//get the two date to be compared

Date d1 = null;

try {

d1 = sdfo.parse(date);

} catch (java.text.ParseException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

Date d2 = null;

try {

d2 = sdfo.parse(date);

} catch (java.text.ParseException e) {

// TODO Auto-generated catch block

e.printStackTrace();

}

return false;

}

boolean isValid(boolean equalsIgnoreCase) {

// TODO Auto-generated method stub

return false;

}

}

* **Flight Details Code :**

**package** AirlineResevationSystem.Assignment1;

**import** java.util.Scanner;

**public** **class** FlightDetails {

**private** String flightNo, departurelocation, arrivalLocation, flightDate,

flightName, flightTime, flightClass , seatAvl;

**double** fare, flightDur;

**public** FlightDetails(String flightNo, String departureLocation,String arrivalLocation,

String flightName, String flightTime, **double** flightDur,

**double** fare, String searAvl, String flightclass) {

**super**();

**this**.flightNo = flightNo;

**this**.departurelocation = departureLocation;

**this**.arrivalLocation = arrivalLocation;

**this**.flightDate = flightDate;

**this**.flightName = flightName;

**this**.flightTime= flightTime;

**this**.flightDur = flightDur;

**this**.fare = fare;

**this**.seatAvl = seatAvl;

**this**.flightClass = flightClass;

}

**public** FlightDetails() {

// **TODO** Auto-generated constructor stub

}

**public** String getFlightNo() {

**return** flightNo;

}

**public** **void** setFlightNo(String flightNo) {

**this**.flightNo = flightNo;

}

**public** String getDeparturelocation() {

**return** departurelocation;

}

**public** **void** setDeparturelocation(String departurelocation) {

**this**.departurelocation = departurelocation;

}

**public** String getArrivalLocation() {

**return** arrivalLocation;

}

**public** **void** setArrivalLocation(String arrivalLocation) {

**this**.arrivalLocation = arrivalLocation;

}

**public** String getFlightDate() {

**return** flightDate;

}

**public** **void** setFlightDate(String flightDate) {

**this**.flightDate = flightDate;

}

**public** String getFlightName() {

**return** flightName;

}

**public** **void** setFlightName(String flightName) {

**this**.flightName = flightName;

}

**public** String getFlightTime() {

**return** flightTime;

}

**public** **void** setFlightTime(String flightTime) {

**this**.flightTime = flightTime;

}

**public** String getSeatAvl() {

**return** seatAvl;

}

**public** **void** setSeatAvl(String seatAvl) {

**this**.seatAvl = seatAvl;

}

**public** String getFlightClass() {

**return** flightClass;

}

**public** **void** setFlightClass(String flightClass) {

**this**.flightClass = flightClass;

}

**public** **double** getFare() {

**return** fare;

}

**public** **void** setFare(**double** fare) {

**this**.fare = fare;

}

**public** **double** getFlightDur() {

**return** flightDur;

}

**public** **void** setFlightDur(**double** flightDur) {

**this**.flightDur = flightDur;

}

FlightDetails addDetails() {

Scanner scanner = **new** Scanner(System.***in***);

System.***out***.println("enter flightNo");

**int** flightNo = scanner.nextInt();

System.***out***.println("enter departureLocation");

String departureLocation = scanner.next();

System.***out***.println("enter arrivalLocation");

String arrivalLocation = scanner.next();

System.***out***.println("enter flightDate");

String flightDate = scanner.next();

System.***out***.println("enter flightName");

String flightName = scanner.next();

System.***out***.println("enter flightTime");

String flightTime = scanner.next();

System.***out***.println("enter flightDur");

String flightDur = scanner.next();

System.***out***.println("enter fare");

String fare = scanner.next();

System.***out***.println("enter seatAvl");

String seatAvl = scanner.next();

System.***out***.println("enter flightClass");

String flightClass = scanner.next();

**return** **new** FlightDetails();

}

}

* **Flight Main Code :**

package AirlineResevationSystem.Assignment1;

import java.io.FileNotFoundException;

import java.util.ArrayList;

import java.util.Date;

import java.util.List;

import java.util.Scanner;

//Main class

public class FlightMain{

public static void main(String[] args) {

//object for getting data from searchFlight class

SearchFlight seachflight = new SearchFlight() ;

Scanner sc = new Scanner(System.in);

// for taking input

String flightNo, departureLocation, arrivalLocation, flightDate,

flightName, flightTime, flightClass , seatAvl;

double fare = 0;

double flightDur = 0;

int choice;

System.out.println("Enter FlightNo");

Scanner scanner = new Scanner(System.in);

flightNo = scanner.nextLine();

System.out.println("Enter Departurelocation");

departureLocation = scanner.nextLine();

System.out.println("Enter ArrivalLocation");

arrivalLocation = scanner.nextLine();

System.out.println("Enter FlightDate");

flightDate = scanner.nextLine();

System.out.println("Enter FlightName");

flightName = scanner.nextLine();

System.out.println("Enter FlightTime");

flightTime = scanner.nextLine();

System.out.println("Enter FlightClass");

flightClass = scanner.nextLine();

System.out.println("Enter SeatAvl");

seatAvl = scanner.nextLine();

System.out.print("Enter Output Preference : 1. Fare \t 2. Flight Duration \nEnter Preference Choice Code : " +" ");

choice = scanner.nextInt();

//for search nd compare data

try {

SearchFlight( flightNo, departureLocation, arrivalLocation,

flightName, flightTime, flightDur,

fare, seatAvl, flightClass);

//costructor call

}catch(Exception e) {

e.printStackTrace();

}

}

private static void SearchFlight(String flightNo, String departureLocation, String arrivalLocation,

String flightName, String flightTime, double flightDur, double fare, String seatAvl, String flightClass) {

// TODO Auto-generated method stub

}

}

* **Registered Passenger Code :**

**package** AirlineResevationSystem.Assignment1;

**import** java.util.Scanner;

**public** **class** RegPassenger {

**private** String FirstName = **null**;

**private** String Date = **null**;

**private** String Address = **null**;

**private** String LastName = **null**;

**public** **static** **void** main(String[] args) {

}

**public** **int** getPassenger\_id() {

**return** Passenger\_id();

}

**private** **int** Passenger\_id() {

// **TODO** Auto-generated method stub

**return** 0;

}

**public** **void** setPassenger\_id(**int** Passenger\_id) {

}

**public** String getFirstName(String FirstName) {

**return** FirstName;

}

**public** **void** setFirstName(String FirstName) {

}

**public** String getLastName() {

**return** LastName;

}

**public** **void** setLastName(String LastName) {

**this**.LastName = LastName;

}

**public** String getAddress() {

**return** Address;

}

**public** **void** setAddress(String Address) {

**this**.Address = Address;

}

**public** String getDate() {

**return** Date;

}

**public** **void** setDate(String Date) {

**this**.Date = Date;

}

**public** RegPassenger(**int** Passenger\_id, String FirstName, String LastName, String Address, String Date) {

**super**();

**this**.FirstName = FirstName;

**this**.LastName = LastName;

**this**.Address = Address;

**this**.Date = Date;

}

**void** verifyPassenger() {

**int** Passenger\_id = **new** Scanner(System.***in***).nextInt();

**if**(Passenger\_id() == Passenger\_id) {

System.***out***.println(" Passenger Registered ");

}

**else** {

System.***out***.println("Passenger not Registered ");

}

}

RegPassenger(){

}

@Override

**public** String toString() {

String Passenger\_id = **null**;

**return** "RegPassenger[Passenger\_id=" + Passenger\_id + ", FirstName=" + FirstName + ", LastName=" + LastName + ", Address=" + Address +" Date=" + Date + "]";

}

RegPassenger addPassenger() {

Scanner sc = **new** Scanner(System.***in***);

System.***out***.println("enter Passenger\_id ");

sc.nextInt();

System.***out***.println("enter FirstName ");

sc.next();

System.***out***.println("enter LastName ");

sc.next();

System.***out***.println("enter Passport");

sc.next();

System.***out***.println("enter Address");

**return** **new** RegPassenger();

}

**public** **void** login(String user, String password) {

// **TODO** Auto-generated method stub

}

}

* **Search Flight Code :**

**package** AirlineResevationSystem.Assignment1;

**import** java.io.FileNotFoundException;

**import** com.sun.tools.javac.parser.ReferenceParser.ParseException;

**import** java.util.Collections;

**import** java.util.Comparator;

**import** java.util.List;

**public** **class** SearchFlight {

ShowFlightDetails list = **new** ShowFlightDetails();

**private** List<FlightDetails> ShowFlightDetails;

//method for comparing data give result

**public** **void** searchFlight(String flightNo, String departureLocation,String arrivalLocation,

String flightName , String flightTime, String flightClass , String seatAvl ,

**double** fare, **double** flightDur) **throws** Exception {

//throw FileNotFoundException

**for** (FlightDetails f : list) {

**if** (f.getFlightNo().equalsIgnoreCase(flightNo) && f.getDeparturelocation().equalsIgnoreCase(departureLocation)

&& f.getArrivalLocation().equalsIgnoreCase(arrivalLocation) && f.getFlightName().equalsIgnoreCase(flightName)

&& f.getFlightTime().equalsIgnoreCase(flightTime)

&&f.getSeatAvl().equalsIgnoreCase("Y") ){

String flightDate = **null**;

**if** (**new** DateChecker().isValid(flightDate,f.getFlightDate()) &&

(f.getFlightClass().equalsIgnoreCase(flightClass) || f.getFlightClass().equalsIgnoreCase("EB"))) {

}

{

AirlineResevationSystem.Assignment1.FlightDetails d = **new** FlightDetails(f.getFlightTime(),

f.getDeparturelocation(), f.getArrivalLocation(), f.getFlightDate(), f.getFlightClass(),

f.getFlightDur(), f.getFare(), f.getSeatAvl(), f.getFlightClass());

**if**(list.get(7).equals("EB"))

//if flight class business class

{

d.setFare(f.getFare() + (0.4) \* f.getFare());

}

list.add(d);

}

}

}

}

**public** **void** sortvalues(**int** choice) {

// for sorting acc to user by fare or both fare & duraion

{

**if** (choice == 1) {

Collections.*sort*(ShowFlightDetails, **new** Comparator<FlightDetails>() {

//@override

**public** **int** compare(FlightDetails o1, FlightDetails o2) {

**return** (**int**) (o1.getFare() - o2.getFare());

}

});

} **else** {

System.***out***.println("You have entered Wrong Choice. ");

**return** ;

}

AirlineResevationSystem.Assignment1.ShowFlightDetails show = **null**;

show.showDetails(list);

}

}

}

* **Show flight Details :**

**package** AirlineResevationSystem.Assignment1;

**import** java.util.ArrayList;

//class for printing data for output

**public** **class** ShowFlightDetails {

**int** i ;

**private** **static** **final** FlightDetails[] ***ShowFlightDetails*** = **null**;

**public** **boolean** showDetails(ShowFlightDetails flightList) {

**for** (FlightDetails details : ***ShowFlightDetails***) {

System.***out***.println();

System.***out***.println("\t | \t" + details.getFlightNo());

System.***out***.println("\t | \t" + details.getDeparturelocation());

System.***out***.println("\t | \t" + details.getArrivalLocation());

System.***out***.println("\t | \t" + details.getFlightDate());

System.***out***.println("\t | \t" + details.getFlightName());

System.***out***.println("\t | \t" + details.getFlightTime());

System.***out***.println("\t | \t" + details.getFlightDur());

System.***out***.println("\t | \t" + details.getFare());

System.***out***.println("\t | \t" + details.getSeatAvl());

System.***out***.println("\t | \t" + details.getFlightClass());

}

**if**(((CharSequence) flightList).isEmpty())

System.***out***.println("Flightts are not available right now");

**return** **false**;

}

**public** **void** add(FlightDetails d) {

// **TODO** Auto-generated method stub

}

**public** Object get(**int** j) {

// **TODO** Auto-generated method stub

**return** **null**;

}

}