public class BoatHouseBooking extends Booking{ private int noOfDays;private String foodType; public String getFoodType() { return this.foodType; }public void setFoodType(String foodType) { this.foodType=foodType; }public int getNoOfDays() { return this.noOfDays; }public void setNoOfDays(int noOfDays) { this.noOfDays=noOfDays; }public BoatHouseBooking(String customerName,String cityName,String phoneNumber,int noOfPeople,int noOfDays,String foodType) { super(customerName, cityName, phoneNumber, noOfPeople); this.noOfPeople=noOfPeople; this.noOfDays=noOfDays; this.foodType=foodType; }public double calculateTotalAmount() { int noOfDays=getNoOfDays(); int noOfPeople=getNoOfPeople(); String foodType=getFoodType(); if(foodType=="NonVeg") { return (noOfPeople\*800)+(noOfDays\*3000) +500; }else{ return (noOfPeople\*800)+(noOfDays\*3000) +250; }} }

public class BoatRideBooking extends Booking{ private float noOfHours; private String guide; public BoatRideBooking(String customerName,String cityName,String phoneNumber,int noOfPeople,float noOfHours,String guide) { super(customerName,cityName,phoneNumber,noOfPeople); this.noOfHours=noOfHours; this.guide=guide; }public float getNoOfHours() { return this.noOfHours; }public void setNoOfHours(float noOfHours) { this.noOfHours=noOfHours; }public String getGuide() { return this.guide; }public void setGuide(String guide) { this.guide=guide; }public double calculateTotalAmount() { String guide=getGuide(); int noOfPeople=getNoOfPeople(); float noOfHours=getNoOfHours(); if(guide=="Yes") {return noOfPeople\*80+noOfHours\*300+150;}else{ return noOfPeople\*80+noOfHours\*300; } } }

public abstract class Booking { protected String customerName; protected String cityName; protected String phoneNumber; protected int noOfPeople; public Booking(String customerName,String cityName,String phoneNumber,int noOfPeople) { this.customerName=customerName; this.cityName=cityName; this.phoneNumber=phoneNumber; this.noOfPeople=noOfPeople; }public String getCustomerName() { return customerName; }public void setCustomerName(String customerName) { this.customerName=customerName; } public String getCityName() { return cityName; }public void setCityName(String cityName) {this.cityName=cityName; }public String getPhoneNumber() { return phoneNumber; }public void setPhoneNumber(String phoneNumber) { this.phoneNumber=phoneNumber; }public int getNoOfPeople() { return noOfPeople; }public void setNoOfPeople(int noOfPeople) { this.noOfPeople=noOfPeople; } }

import java.util.Scanner; public class UserInterface { public static void main(String[] args) { Scanner sc = new Scanner(System.in); System.out.println("Enter the Customer Name"); String name=sc.next(); System.out.println("Enter the City name"); String city=sc.next(); System.out.println("Enter the phone number"); String phone=sc.next(); System.out.println("Enter number of people"); int no\_people=sc.nextInt(); System.out.println("Enter the option\n1. Boat House Booking\n2. Boat Ride Booking"); int option=sc.nextInt();double amount; if(option==1) {System.out.println("Enter number of days"); int no\_days=sc.nextInt(); System.out.println("Enter food type (Veg/NonVeg)"); String food=sc.next(); BoatHouseBooking b = new BoatHouseBooking(name,city,phone,no\_people,no\_days,food); amount = b.calculateTotalAmount(); }else{ System.out.println("Enter number of hours"); int hour=sc.nextInt(); System.out.println("Do you want guide (Yes/No)"); String ans = sc.next(); BoatRideBooking b=new BoatRideBooking(name,city,phone,no\_people,hour,ans); amount=b.calculateTotalAmount(); }System.out.println("Your booking has been confirmed pay Rs."+amount); } }