Assignment 2A

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CSE 1322/L

**Problem Statement**:

Write an abstract class called Vacation includes a budget and a destination. It has an abstract method returning by how much the vacation is over or under budget. This class has two non-abstract subclasses:

All-Inclusive Vacation

brand (such as ClubMed, Delta Vacations, etc)

a rating (you can use # of stars)

price

Piecemeal Vacation

set of items (hotel, meal, airfare, etc)

set of corresponding costs (hotel cost, meal cost, airfare cost, etc.)

You need to write a test class to test all these classes and methods in each. You will need to start by writing the pseudocode for your programs, then code the solution and test your solution.

**Pseudocode:**

Create abstract class Vacation

Create variable budget and destination;

Create abstract method vacationbudget which takes budget as the parameter;

Constructor vacation(int budget, String destination)

This.budget = budget;

This.destination = destination;

and override toString to show destination and budget;

end class

Create class allinclusive that extends vacation

Create variables brand, rating, and price;

Constructor allinclusive( brand, rating, and price)

This.brand = brand;

This.rating = rating;

This.price = price;

Call method vacationbudget which returns price;

and override toString to show Rating, Price, and branding;

end class

Create class piecemeal class that extends vacation

Create variables String hotelname, double hotel, String airlinename, double airline, double meal, String mealType; // those with double are the cost of each one

Constructor piecemeal(hotelname, airlinename, hotel, airline, meal)

This.hotelname = hotelname;

This.airlinename = airlinename;

This.hotel = hotel;

This.airline = airline;

This.meal = meal;

Call method vacationbudget which returns the airline, meal, and hotel cost by summing them up;

Override toString to show the airlineName, airline, hotelName, hotel, meal, mealType;

End class

Create class Assignment2B

Create main method

Create a new object for allinclusive with all the parameters necessary;

Create a new object for piecemeal with the parameters necessary;

Create array list for vacation;

Add the values to the list using .add

//Display output

Do if else to say if the vacation is over or under budget;

End main

End class