

CSE212: SOFTWARE DEVELOPMENT METHODOLOGIES

YEDITEPE UNIVERSITY

SPRING 2023

ASSIGNMENT 2 – DUE DATE MARCH 13TH, 2023

Below, you can find the description of your second assignment. Additionally, you can also find the expected output of this assignment in the Application Walkthrough section.

Accordingly, you are required to develop a *Hotel Reservation System*, where you will be generating Reservation items and display the information that they hold. Every Reservation should also include the overall cost (payment due).

For this purpose, you are asked to create a *Reservation* class that includes *hotelName* stored in a *String*, *reservationMonth* stored in a *String*, *reservationStart* day stored in an *int*, *reservationEnd* day stored in an *int*, and *dailyCost* stored in an *int* variable. Furthermore, your class should have a *displayInfo()* method, which would display the information about the *Reservation*; and call the *calculateTotalPrice()* method that calculates the total amount a customer will have to pay for their Reservation. You should create a *Reservation* object and insert all the data via its constructor. Also when you are displaying the information all information should be collected via *getter* methods. Your implementation **must be** constructed as **two** separate java files.

For simplicity purposes, *reservationStart* and *reservationEnd* variables should represent the days in a month, while the *reservationMonth* variable should describe the months in a year. Hence, as part of this assignment, you should assume that the maximum possible reservation period is 30 days - e.g. If *reservationMonth* is April, *reservationStart* day is 3 and *reservationEnd* day is 21, then you should infer that the customer has made a reservation at the hotel from April 3 till April 21, for a total of 18 days.

You should create few *Reservation* objects and show their information and their total cost by implementing a menu as shown below;

1. Create new Reservation
2. Display all Reservations
0. Exit

PS: You can use basic C-style arrays.

Application Walkthrough

1. Create new Reservation
2. Display all Reservations
0. Exit

1

Hotel Name: Hilton

Reservation Month: April

Reservation Start: 7

Reservation End: 12

Daily Cost: 250

Reservation created!

1. Create new Reservation
2. Display all Reservations
0. Exit

1

Hotel Name: Ramada

Reservation Month: August

Reservation Start: 20

Reservation End: 27

Daily Cost: 120

Reservation created!

1. Create new Reservation
2. Display all Reservations
0. Exit

2

Reservation for Hilton starts on April 7 and ends on April 12. Reservation has a total cost of \$1250.

Reservation for Ramada starts on August 20 and ends on August 27. Reservation has a total cost of \$840.

1. Create new Lease
2. Display all Leases
0. Exit

0

Submit your assignments in a zip file, which has your student number as name, through the YULEARN (<https://yulearn.yeditepe.edu.tr>) latest by the end of Monday, March 13th, 2023.