



Daffodil International University
Department of Software Engineering
Faculty of Science and Information Technology (FSIT)
Assignment, Semester: Summer - 2020
Course Code: SE 211, Course Title: Object Oriented Concept
Level-2, Term-1, Course Teacher: MAH (A, B) Total Marks: 15

1. You have been asked to develop the new automated reservations system. You have to write code to assign seats of the airline's plane whose capacity is 20 seats among them 10 seats are considered as the First class ticket, and other 10 seats are considered as Economy class tickets. Create a class named ReservationSystem, make a method that will **book seats** for passengers. When all seats are assigned, then no seats are available. If all seats are booked then show a message like this "All seats are booked, Next flight leaves in 2 hours." Create a Main class and call all the methods of ReservationSystem class. **6**
2. Assume that, you are assigned to develop a program for **"Domino's Pizza"** to automate their system. A customer has attributes named id, name, address, and phone number. There are two types of food: pizza and drinks. All types of food have a unique id, food name, and price. But pizza has one more attribute called flavor name. Moreover, drinks have a brand name. A customer can order any kind of food. **2**

Answer the following questions based on above scenario:

- Make required class(es) with necessary attributes and methods considering the above scenario by using code reusability concept. **2**
- Ensure data hiding technique properly while designing your classes. **1**
- Make the option/provision/method where customers can make an order with food name and quantity. Also calculate the bill. **1**
- Make a method where the user can take all the input from the user. **1**
- Make a method where you print the information of the order. **2**
- Make a Main class with the main method to initialize objects of required classes and show all order information by a customer.