**Homework “Classes and their main features”**

1. Constructors;
   * Create class Ticket with following fields Passenger, Flight;
   * Create constructor with following parameters Passenger, Flight.
   * Create parameter constructor for Passenger class.
2. Fields;
   * Ticket. Add static Ticket field in class EmptyTicket;
   * Passenger. Make DateOfRegistration field readonly ;
   * Create class Airplane with following fields Name, Capacity;
   * Create class AirplaneRoute with following fields Airplane and Tickets, Date
3. Properties;
   * Create properties for all fields of Passenger, Ticket, Airplane, AirplaneRoute classes;
   * Create automatic properties for all properties of Passenger, Ticket, Airplane, AirplaneRoute classes;
   * Make DateOfRegistration property only get access method;
   * Initialize DateOfRegistration property current DateTime;
4. Methods;
   * **Ticket**. Add field **priceOfTicket** to class Ticket;
   * **Ticket**.Add method which **CalculatePrice** price of ticket and set **priceOfTicket**;
   * Remove **priceOfTicket** and change method **CalculatePrice –** method must return price of ticket;
   * **AirplaneFlight**. Add method **IsTodayFlight** which will check is current day flight;
   * **Ticket**. Add method **Summarize** which will return short summary about ticket (string format);
   * Add static class TicketCalculator, add static method Calculate which will receive as input parameter Ticket return price;
   * add static method (overloaded) Calculate which will receive as input parameter Passenger and Flight return price;
5. Delegates;
   * Create delegate LogTicketInfo which does not have return value and input parameter Ticket;
   * Create method Add in class AirplaneRoute which will receive parameter Ticket and to collection Tickets.
6. Events;
   * Create event TicketAdded and call it after adding purchase in Add method.
7. In TicketCalculator method Calculate try to change received parameter amount and check it after calling parameter, try do the same for Ticket price.
8. Change TicketCalculator method Calculate parameter input amount with ref keyword and out keyword and do previous point.