## Automatic evaluation[+]

## Driver.cs

```
1 using System;
2 using System.Collections.Generic;
3 using System.Linq;
4 using System. Text;
5 using System. Threading. Tasks;
6 using System.Data.SqlClient;
7 using System.Collections;
8 using System.Data;
9 using System.Configuration;
10
11 namespace TicketManagement
                                              //DO NOT change the namespace name
12 {
13
     public class Program
                                     //DO NOT change the class name
14
15
16
       static void Main(string[] args)
                                        //DO NOT change the 'Main' method signature
17
          //Implement the code here
18
19
          char choice = 'y';
          Console.WriteLine("Enter Ticket Details: ");
20
21
          while( choice == 'y')
22
23
             Console.WriteLine("Enter Passenger Id:");
24
            string id = Console.ReadLine();
            Console.WriteLine("Enter Passenger Name:");
25
26
            string name = Console.ReadLine();
27
            Console.WriteLine("Enter Travel Date:");
            string date = Console.ReadLine();
28
29
             Console.WriteLine("Enter Distance Travelled:");
30
            int dist = Convert.ToInt32(Console.ReadLine());
31
            DistanceValidator dv = new DistanceValidator();
32
            while ( dv.ValidateTravelDistance(dist) == "true")
33
34
               Console.WriteLine("Given distance is invalid");
35
               Console.WriteLine("Enter Distance Travelled: ");
36
               dist = Convert.ToInt32(Console.ReadLine());
37
38
            TicketDetail td = new TicketDetail(id, name, date, dist);
            TicketBooking tb = new TicketBooking();
39
40
            tb.CalculateCost(td);
            tb.AddTicket(td);
41
42
             Console.WriteLine(td.PassengerId);
43
             Console.WriteLine(td.PassengerName);
            Console.WriteLine(td.TravelDate);
44
45
            Console.WriteLine(td.DistanceTravel);
46
            Console.WriteLine($"Ticket Cost: {td.TicketCost}");
47
            Console.WriteLine("Book Another Ticket (y/n): ");
48
             choice =Convert.ToChar(Console.ReadLine());
49
50
51
     public class DistanceValidator
52
53
         //DO NOT change the class name
54
       public String ValidateTravelDistance(int distance)
55
                                                            //DO NOT change the method signature
56
57
          //Implement code here
58
          if(distance < 0)
59
60
             return "Given distance is invalid";
61
62
          else
63
```

```
return "";
 64
 65
 66
         }
 67
      }
 68 }
 69
App.config
  1 <!-- THIS IS FOR REFERENCE ONLY. YOU ARE NOT REQUIRED TO MAKE ANY CHANGES HERE -->
  3 <?xml version="1.0" encoding="utf-8" ?>
  4 <configuration>
  5
      <startup>
  6
        <supportedRuntime version="v4.0" sku=".NETFramework,Version=v4.6.1" />
  7
      </startup>
  8
     <connectionStrings>
      <add name="SqlCon"
connectionString="server=localhost;database=TicketBookingDB;uid=XXXXX;password=XXXXXX;"/>
 10 </connectionStrings>
 11 </configuration>
DBHandler.cs
  1 using System;
  2 using System.Collections.Generic;
  3 using System.Linq;
  4 using System. Text;
  5 using System.Threading.Tasks;
  6 using System.Data.SqlClient;
  7 using System.Configuration;
  9 namespace TicketManagement
                                          //DO NOT change the namespace name
 10
 11 {
       public class DBHandler
                                  //DO NOT change the class name
 12
 13
 14
         //Implement the methods as per the description
         public DBHandler() { }
 15
 16
         public SqlConnection GetConnection()
 17
 18
           return new SqlConnection(ConfigurationManager.ConnectionStrings["SqlCon"].ConnectionString);
 19
 20
 21
         }
 22
 23
      }
 24 }
 25
TicketBooking.cs
  1 using System;
  2 using System.Collections;
  3 using System.Collections.Generic;
  4 using System.Data;
  5 using System.Data.SqlClient;
  6 using System.Linq;
  7 using System.Text;
  8 using System. Threading. Tasks;
 10 namespace TicketManagement
                                         //DO NOT change the namespace name
 11 {
                                   //DO NOT change the class name
 12
       public class TicketBooking
 13
 14
         //Implement the property as per the description
 15
         public SqlConnection Sqlcon { get; set; }
 16
         public TicketBooking() { }
 17
 18
         DBHandler d = new DBHandler();
         public void AddTicket(TicketDetail detail)
 19
```

```
20
         {
 21
 22
           string query = "INSERT INTO TicketBooking VALUES(@id,@name,@date,@dist,@cost)";
 23
           using (SqlConnection con = d.GetConnection())
 24
           using (SqlCommand cmd = new SqlCommand(query, con))
 25
              cmd.Parameters.Add("@id", SqlDbType.VarChar).Value = detail.Passengerld;
 26
              cmd.Parameters.Add("@name", SqlDbType.VarChar).Value = detail.PassengerName;
 27
              cmd.Parameters.Add("@date", SqlDbType.VarChar).Value = detail.TravelDate;
 28
              cmd.Parameters.Add("@dist", SqlDbType.Int).Value = detail.DistanceTravel;
 29
 30
              cmd.Parameters.Add("@cost", SqlDbType.Float).Value = detail.TicketCost;
 31
              con.Open();
 32
 33
              try
 34
              {
 35
                cmd.ExecuteNonQuery();
 36
 37
              catch (Exception e)
 38
 39
                Console.WriteLine(e.Message);
 40
 41
              finally
 42
              {
 43
                con.Close();
 44
              }
 45
 46
         }
 47
 48
         //Implement the methods as per the description
 49
         public void CalculateCost(TicketDetail detail)
 50
 51
           if(detail.DistanceTravel <= 100)
 52
 53
              detail.TicketCost = detail.DistanceTravel * 1;
 54
 55
           else if(detail.DistanceTravel >100 && detail.DistanceTravel <= 300)
 56
 57
              detail.TicketCost = detail.DistanceTravel * 1.5;
 58
 59
           else if (detail.DistanceTravel > 300 && detail.DistanceTravel <= 500)
 60
 61
              detail.TicketCost = detail.DistanceTravel * 2.5;
 62
           else if (detail.DistanceTravel > 500)
 63
 64
 65
              detail.TicketCost = detail.DistanceTravel * 4.5;
 66
 67
         }
 68
 69
 70 }
TicketDetail.cs
  1 using System;
 2 using System.Collections.Generic;
 3 using System.Ling;
  4 using System. Text;
 5 using System. Threading. Tasks;
 7 namespace TicketManagement
                                           //DO NOT change the namespace name
 8 {
 9
      public class TicketDetail
                                 //DO NOT change the class name
 10
         //Implement the fields and properties as per description
 11
 12
 13
         private string passengerld;
```

```
14
        private string passengerName;
15
        private string travelDate;
16
        private int distanceTravel;
        private double ticketCost;
17
18
19
        public string PassengerId
20
21
           get { return passengerId; }
22
          set { this.passengerId = value; }
23
24
        public string PassengerName
25
26
          get { return passengerName; }
27
          set { this.passengerName = value; }
28
29
        public string TravelDate
30
           get { return travelDate; }
31
32
          set { this.travelDate = value; }
33
34
        public int DistanceTravel
35
          get { return distanceTravel; }
36
37
          set { this.distanceTravel = value; }
38
39
        public double TicketCost
40
41
          get { return ticketCost; }
42
          set { this.ticketCost = value; }
43
44
45
46
        public TicketDetail() { }
47
        public TicketDetail(string passengerId, string passengerName, string travelDate, int distanceTravel)
48
           this.passengerId = passengerId;
49
50
          this.passengerName = passengerName;
51
           this.travelDate = travelDate;
          this.distanceTravel = distanceTravel;
52
53
54
        }
55
     }
56
57 }
58
```

## Grade

Reviewed on Friday, 7 January 2022, 7:32 PM by Automatic grade

**Grade** 100 / 100

**Assessment report** 

[+]Grading and Feedback