```
using System;
using StoresScheduleSystemBLL;
namespace StoresScheduleSystemConsoleUi
  class Program
    static void Main(string[] args)
      string Continue = "y";
      StoreScheduler StoreScheduler = new StoreScheduler();
      if (Continue.ToLower() == "n")
      {
        System.Environment.Exit(1);
      }
      else
        while (Continue.ToLower() == "y")
          Console.WriteLine("-----");
          Console.WriteLine("======= GHMC Stores Scheduler =======");
          Console.WriteLine("-----");
          try
             FindAndUpdateStore(StoreScheduler);
          catch (Exception ex)
             Console.WriteLine("Error: " + ex.Message);
          finally
             Console.WriteLine();
             Console.Write("Do you want to continue for another store(y/n):");
             Continue = Console.ReadLine();
      }
    }
```

```
private static void FindAndUpdateStore(StoreScheduler StoreScheduler)
  StoreScheduler storeScheduler = new StoreScheduler();
  Console.WriteLine("Enter store id");
  int id = Convert.ToInt32(Console.ReadLine());
  Store store = storeScheduler.GetStoreByld(id);
    if (store.StoreId == id)
       Console.WriteLine("Found a store with following details");
       Console.WriteLine("StoreName: " + store.StoreName);
       Console.WriteLine("OwnerName: " + store.OwnerName);
       Console.WriteLine("MobileNo: " + store.MobileNo);
       Console.WriteLine("StoreAddress: " + store.StoreAddress);
       Console.WriteLine("SellsEssentials: " + store.SellsEssentials);
       Console.WriteLine("OpeningTime : " + store.OpeningTime);
       Console.WriteLine("ClosingTime: " + store.ClosingTime);
       Console.WriteLine("Enter the Timeslot assigned to store (TimeSlotA/TimeSlotB)");
       try
       {
         string timeslot = Console.ReadLine();
         storeScheduler.AssignTimings(store, timeslot);
         storeScheduler.UpdateStoreTimings(store, timeslot);
         Console.WriteLine("Time slot updated for the store {0}", store.StoreName);
       catch (Exception e)
       {
         Console.WriteLine(e.Message);
  else
  {
    Console.WriteLine("No store found for store id: {0}", id);
  }
```

}

```
}
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace StoresScheduleSystemBLL
  public class Store
    public int StoreId { get; set; }
     public string StoreName { get; set; }
     public string OwnerName { get; set; }
    public string MobileNo { get; set; }
     public string StoreAddress { get; set; }
     public bool SellsEssentials { get; set; }
     public string OpeningTime { get; set; }
    public string ClosingTime { get; set; }
  }
}
StoreSchedular.cs.....
.....
using System;
using System.Data;
using StoresScheduleSystemDAL;
namespace StoresScheduleSystemBLL
 public class StoreScheduler
  {
      StoresScheduleDAO StoresScheduleDAO = new StoresScheduleDAO();
     public StoreScheduler()
       // Instantiate fields here
     public Store AssignTimings(Store store, string timeSlot)
       TimeSlotA timeSlotA = new TimeSlotA();
```

```
TimeSlotB timeSlotB = new TimeSlotB();
  if (timeSlot == "timeSlotA" || timeSlot=="TimeSlotA")
  {
    timeSlotA.SetIsEssentialItemsStore(Convert.ToBoolean(store.SelIsEssentials));
    store.OpeningTime = timeSlotA.GetOpeningTime();
    store.ClosingTime = timeSlotA.GetClosingTime();
  else if(timeSlot == "timeSlotB" || timeSlot == "TimeSlotB")
    timeSlotB.SetIsEssentialItemsStore(Convert.ToBoolean(store.SellsEssentials));
    store.OpeningTime = timeSlotB.GetOpeningTime();
    store.ClosingTime = timeSlotB.GetClosingTime();
  }
  else
  {
    throw new ArgumentException("Error: Invalid time slot");
  return store;
}
public Store GetStoreByld(int storeId)
  Store Store = new Store();
  DataTable dt = StoresScheduleDAO.FindStore(storeId);
  if(dt!=null && dt.Rows.Count>0)
    Store.MobileNo = dt.Rows[0]["MobileNo"].ToString();
    Store.StoreName = dt.Rows[0]["StoreName"].ToString();
    Store.OwnerName = dt.Rows[0]["OwnerName"].ToString();
    Store.StoreId = Convert.ToInt32(dt.Rows[0]["StoreId"]);
    Store.StoreAddress = dt.Rows[0]["StoreAddress"].ToString();
    Store.SellsEssentials = Convert.ToBoolean(dt.Rows[0]["SellsEssentials"]);
    Store.OpeningTime = dt.Rows[0]["OpeningTime"].ToString();
    Store.ClosingTime = dt.Rows[0]["ClosingTime"].ToString();
  }
    else
         {
                return null;
         }
  return Store;
```

```
}
    public bool UpdateStoreTimings(Store store, string timeSlot)
       bool IsUpdated = false;
       // Donot change method signature
       // Implement code here
       TimeSlotA timeSlotA = new TimeSlotA();
       TimeSlotB timeSlotB = new TimeSlotB();
       if (timeSlot == "timeSlotA" || timeSlot=="TimeSlotA")
         timeSlotA.SetIsEssentialItemsStore(Convert.ToBoolean(store.SelIsEssentials));
         store.OpeningTime = timeSlotA.GetOpeningTime();
         store.ClosingTime = timeSlotA.GetClosingTime();
       else if(timeSlot == "timeSlotB" || timeSlot == "TimeSlotB")
         timeSlotB.SetIsEssentialItemsStore(Convert.ToBoolean(store.SellsEssentials));
         store.OpeningTime = timeSlotB.GetOpeningTime();
         store.ClosingTime = timeSlotB.GetClosingTime();
       }
       else
         throw new Exception("Error: Invalid time slot");
       StoresScheduleDAO storesScheduleDAO = new StoresScheduleDAO();
       int a = storesScheduleDAO.UpdateStore(store.StoreId, store.OpeningTime,
store.ClosingTime);
       if (a > 0)
         IsUpdated = true;
       return IsUpdated;
    }
  }
StoresScheduleDAO.cs.....
.....
using System;
using System.Collections.Generic;
using System.Data;
```

```
using System.Data.SqlClient;
using System.Linq;
using System.Text;
using System.Threading.Tasks;
using System.Configuration;
namespace StoresScheduleSystemDAL
 public class StoresScheduleDAO
    public SqlConnection connection;
    public SqlCommand command;
    public SqlDataAdapter adapter;
    public string connstring =
ConfigurationManager.ConnectionStrings["StoresConnection"].ConnectionString;
     public StoresScheduleDAO()
       // Instantiate fields here
    }
    public DataTable FindStore(int storeId)
       DataTable table = new DataTable();
         connection = new SqlConnection(connstring);
         string query = "select * from Stores where storeld= " + storeld;
         connection.Open();
         adapter = new SqlDataAdapter(query, connection);
         adapter.Fill(table);
         connection.Close();
       return table;
    public int UpdateStore(int storeId, string openingTime, string closingTime)
```

```
int RowsAffected;
       connection = new SqlConnection(connstring);
       string query = "update dbo.Stores set OpeningTime= "" + openingTime + ""
,ClosingTime= "" + closingTime + "' where StoreId= " + storeId;
       connection.Open();
       command = new SqlCommand(query, connection);
       RowsAffected = command.ExecuteNonQuery();
       connection.Close();
       return RowsAffected;
    }
  }
}
using System;
using System.Collections.Generic;
using System.Ling;
using System.Text;
using System. Threading. Tasks;
namespace StoresScheduleSystemBLL
  public class TimeSlot
    protected bool SellsEssentialItems;
    public void SetIsEssentialItemsStore(bool isEssentialItemsStore)
      SellsEssentialItems = isEssentialItemsStore;
    public virtual string GetOpeningTime()
         return "08:00 AM";
    public virtual string GetClosingTime()
```

```
{
        return "08:00 PM";
  }
TimeSlotA.cs.....
using System;
namespace StoresScheduleSystemBLL
 public class TimeSlotA:TimeSlot
    public override string GetOpeningTime()
      // Donot change method signature
      // Implement code here
      if (SellsEssentialItems)
        return "08:00 AM";
      else
        return "10:00 AM";
    public override string GetClosingTime()
      if (SellsEssentialItems)
        return "02:00 PM";
      }
      else
        return "02:00 PM";
```

```
}
    }
using System;
namespace StoresScheduleSystemBLL
{
  public class TimeSlotB:TimeSlot
    public override string GetOpeningTime()
       if (SellsEssentialItems)
         return "02:00 PM";
       else
         return "04:00 PM";
    public override string GetClosingTime()
       if (SellsEssentialItems)
         return "08:00 PM";
       }
       else
         return "08:00 PM";
```

}

}