**Coding challenge2**

**Time: 2 hours**

**Pre-requisite.**

*Classes and object, Collection, Exceptional handling File handling*

*Use Proper naming convention. Use properties.*

*Menu driven to be in Loop*

*Use Ado.net*

*Layered architecture*

Do menu driven program to do the following:

1. Add the **MobileOperator** entity.

Id ,

Name (**Custom Exception** > Operator name should not be duplicate),

Rating. (**Custom Exception** > Rating should be less than 5.)

1. Display all the mobile Operator with ID and Name. <Throw **Custom Exception** if no operators are present>

1. Add the **Person** entity

PersonId, (**PersonId** should not be duplicate),

PersonName,

MobileOperatorId (Operator id should present in List<Mobile Operator>. Throw **Custom exception** if not present)

1. Display the top two mobile operators by rating. <Throw **Custom Exception** if no **operators** are present>

1. Search person details with mobile operator using person id.
2. Display all persons with id, name and operator name and write it in a text file.

**Please Note: The data must be saved in Database and fetched from database using Ado.net**