User Interface : From where the user will interact with the application

Character based : Console Application

Graphical based : Complete Graphical Mode

ADO

ADO.NET

User Interface / Front End Back End

Enter Name : Deepak Databases (Sql Server)

Entity Framework

**BackEnd**

create database PracticeDB

use PracticeDB

create table Employee (id int primary key,

name varchar(20) not null,

address varchar(max),

salary int)

insert into Employee values

(1,'Ajay','Delhi',89000),

(2,'Deepak','N Delhi',78000),

(3,'Naman','Calcutta',36000),

(4,'Gagan','Calcutta',98000),

(5,'Pritpal','Delhi',56000),

(6,'Mandeep','N Delhi',89000)

Select \* from Employee

**Get all Records in Console Application**

using System;

using System.Collections.Generic;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

**// Step 1 , add required namespaces/library**

**using System.Data.SqlClient;**

namespace AdoNetDemos

{

class Program

{

static void Main(string[] args)

{

**// Step 2,** Create a connection object , within that

// pass the connectionstring

// connectionstring contains

// 1. Server Name

// 2. Database Name

// 3. Credentials

**SqlConnection sqlConnection = new SqlConnection();**

**string connectionString = "data source=LAPTOP-53S2KQS8;" +**

**"initial catalog=PracticeDb;integrated security=true";**

**sqlConnection.ConnectionString = connectionString;**

**// Step 3: ,** We need to pass the request from front End

// to Back End

// Create Object of SqlCommand

// Within that we will pass 2 parameters

// 1. Command 2. Connection Object

**SqlCommand command = new SqlCommand();**

**command.CommandText = "Select \* from Employee";**

**command.Connection = sqlConnection;**

**// Step 4: Open Connection**

**sqlConnection.Open();**

// At this point , connection is established

// in between FEnd & BEnd

**// Step 5: Execute Query**

// ExecuteReader executes Select Query at backend

// and brings record from there

**SqlDataReader reader = command.ExecuteReader();**

if(reader.HasRows)

{

while(reader.Read())

{

Console.WriteLine(reader[0] + " " + reader[1]);

}

}

**// Close connection between FEnd & BEnd**

**sqlConnection.Close();**

}

}}