**Experiment Title:** Display parameterized data using SQLDataReader and GridView in ASP.NET

# Objective:

To learn and implement parameterized data using SQLDataReader and GridView in ASP.NET

# Theory:

# ADO.NET SqlDataReader Class

# This class is used to read data from SQL Server database. It reads data in forward-only stream of rows from a SQL Server database. it is sealed class so that cannot be inherited. It inherits DbDataReader class and implements IDisposable interface.

# SqlDataReader Signature

# public class SqlDataReader : System.Data.Common.DbDataReader, IDisposable

# SqlDataReader Properties

|  |  |
| --- | --- |
| Property | Description |
| Connection | It is used to get the SqlConnection associated with the SqlDataReader. |
| Depth | It is used to get a value that indicates the depth of nesting for the current row. |
| FieldCount | It is used to get the number of columns in the current row. |
| HasRows | It is used to get a value that indicates whether the SqlDataReader contains one or more rows. |
| IsClosed | It is used to retrieve a boolean value that indicates whether the specified SqlDataReader instance has been closed. |
| Item[String] | It is used to get the value of the specified column in its native format given the column name. |
| Item[Int32] | It is used to get the value of the specified column in its native format given the column ordinal. |
| RecordsAffected | It is used to get the number of rows changed, inserted or deleted by execution of the Transact-SQL statement. |
| VisibleFieldCount | It is used to get the number of fields in the SqlDataReader that are not hidden. |

# Methods

|  |  |
| --- | --- |
| Method | Description |
| Close() | It is used to closes the SqlDataReader object. |
| GetBoolean(Int32) | It is used to get the value of the specified column as a Boolean. |
| GetByte(Int32) | It is used to get the value of the specified column as a byte. |
| GetChar(Int32) | It is used to get the value of the specified column as a single character. |
| GetDateTime(Int32) | It is used to get the value of the specified column as a DateTime object. |
| GetDecimal(Int32) | It is used to get the value of the specified column as a Decimal object. |
| GetDouble(Int32) | It is used to get the value of the specified column as a double-precision floating point number. |
| GetFloat(Int32) | It is used to get the value of the specified column as a single-precision floating point number. |
| GetName(Int32) | It is used to get the name of the specified column. |
| GetSchemaTable() | It is used to get a DataTable that describes the column metadata of the SqlDataReader. |
| GetValue(Int32) | It is used to get the value of the specified column in its native format. |
| GetValues(Object[]) | It is used to populate an array of objects with the column values of the current row. |
| NextResult() | It is used to get the next result, when reading the results of SQL statements. |
| Read() | It is used to read record from the SQL Server database. |

# To create a SqlDataReader instance, we must call the ExecuteReader method of the SqlCommand object.

## **Example**

In the following program, we are using SqlDataReader to get data from the SQL Server. A C# code is given below

Program.cs

using System;

using System.Data.SqlClient;

namespace AdoNetConsoleApplication

{ class Program

{ static void Main(string[] args)

{ new Program().GetData();

}

public void GetData()

{ SqlConnection con = null;

try

{ // Creating Connection

con = new SqlConnection("data source=.; database=student; integrated security=SSPI");

// writing sql query

SqlCommand cm = new SqlCommand("select \* from student", con);

// Opening Connection

con.Open();

// Executing the SQL query

SqlDataReader sdr = cm.ExecuteReader();

while (sdr.Read())

{ Console.WriteLine(sdr["name"]+" "+ sdr["email"]);

}

}

catch (Exception e)

{ Console.WriteLine("OOPs, something went wrong." + e);

}

// Closing the connection

finally

{ con.Close();

}

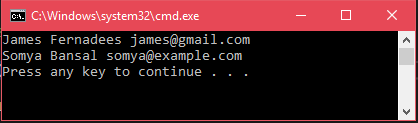
}

}

}

Output:

Execute this program by combination of Ctrl+F5 and it will produce the following output.



# Procedure :

Write web application implementing above codes with HTML Content.

# Conclusion: