

### **QUES 1: Describe all the data provider objects with sample code**

#### **SOLUTION:**

Data provider objects are:

- 1) Connection-  
It is used to establish connections with the data source.
- 2) Command  
It is used to perform sql queries from the database..
- 3) DataReader  
It is used to read data from the database.
- 4) DataAdapter  
It populates the dataset with the data source.

### **Ques 4: What are the two architecture in ado .net for connection create a connection, implement both architecture and show the difference**

#### **SOLUTION:**

There are two types of architecture in ADO.NET:

- 1) Connected architecture
- 2) Disconnected architecture

#### Connected :

In Connected architecture connection must be open before retrieving the data from the database. It was used in classes such as connection,command,and datareader. Connected hold the single table.

#### Disconnected :

In disconnected architecture data can be retrieved from the database even without opening the sql connection. SqlDataAdapter object fetches the data without opening the connection. Disconnected hold the multiple tables at a time.

**QUES 8: What are the differences between DataReader, DataAdapter and DataSet?**

**SOLUTION**

**DataReader-** DataReader reads the data. Datareader is used to fetch data from the database. It fetches only one row at a time. It works only in forward direction. It returns only one row at a time. It requires an open connection before fetching the data.

**DataAdapter-** DataAdapter is used to execute sql query and store the result in the dataset or the datatable. It fetches all the row one at a time. It can be traversed in both forward and backward direction. It manages the connection internally hence don't need to open and close the connection.

**DataSet-** DataSet is a set of tables that holds multiple tables one at a time. DataSet is basically used to fetch one or more tables at a time. DataAdapter is used to populate data into the dataset.

**QUES 9: What are the methods of XML dataset objects**

**SOLUTION:**

- 1) GetXml - Retrieves xml data in the dataset as a single string.
- 2) ReadXml - Read xml data from a file , textreader which is used to populate the dataset.
- 3) WriteXml - Write the contents of the dataset to a file or a textWriter.
- 4) GetXmlSchema() - Retrieves the schema for the dataset. It returns no data.
- 5) ReadXmlSchema() - Read an xml schema from a file or textReader.
- 6) WriteXmlSchema()- Write the xml schema into the dataset describing the contents of the data in the file.