Ques1.Describe all the data provider objects with sample code?
Ans1.**Connection:** For establishing the connection to a database.

Command: For executing the queries for performing database operations.

Data Reader: It is used to read data from data source. The DbDataReader is a base class for all DataReader objects.
Data Adapter: It is used to retrieve data.

Ques8.What are the differences between DataReader, DataAdapter and DataSet?
Ans . Difference between:

     DataReader: This is used to read the data and for fetching the data from SQL query.It is the fastest technique to fetch the data from database and it works only in forward direction.It is for ReadOnly and works in one row in one time.

     DataAdapter: This is used for executing SQL Query and to send the result of SQL Query in data set.It takes all the rows of the executed SQL statement at one time and populates into DataSet in memory and its DataAdapter is bit slower than DataReader.It make use of FILL function.

     DataSet: It is a set of data or data tables.DataSet is mainly used to fetch and hold the records for one or more tables into memory.

Ques4.What are the two architecture in ado .net for connection create a connection, implement both architecture and show the difference?
And.The two architecture in Ado.net are:

     i.Connected Architecture

     ii.Disconnected Architecture

Connected architecture: In this connection with a data source is constantly open for data access as well as data manipulation.
The ADO.NET Connected architecture considers mainly three types of objects.
i.SqlConnection con
ii.SqlCommand cmd
iii.SqlDataReader dr

Disconnected architecture: It is the main feature of ADO.NET.Many class use this feature. This feature is not open constantly but it is made in that way so that it can open and close the connection automatically.
The ADO.NET Disconnected architecture considers primarily the following types of objects:
i.DataSet ds
ii.SqlDataAdapter da
iii.SqlConnection con
iv.SqlCommandBuilder bldr

Ques9:What are the methods of XML dataset objects.
Ans: Methods of XML dataset objects are:

WriteXml(): It enables us to write the data of the data set into an XML file.

WriteXmlSchema(): It enables us to write the data in the dataset as on XML Schema.

ReadXml( ): It reads the XML data from the file and is used to populate the data sets.

ReadXmlSchema( ): It reads the XML schema from the file and is used to configure the data sets.

InferXmlSchema( ): It infers the XML schema and apply dataset by reading through Xml data by the file.