Practical-16:
Create .net application to explore functionalities of LINQ.

Default.aspx:

```
<%@ Page Language="C#" AutoEventWireup="true" CodeFile="Default.aspx.cs"
Inherits="_Default" %>

<!DOCTYPE html>

<html xmlns="http://www.w3.org/1999/xhtml">
<head runat="server">
    <title></title>
</head>
<body>
    <form id="form1" runat="server">
        <div>
            <asp:GridView ID="gvitems" runat="server"
AutoGenerateColumns="false"
OnSelectedIndexChanged="gvitems_SelectedIndexChanged">
                <Columns>
                    <asp:BoundField DataField="ID" HeaderText="Item ID"
ItemStyle-Width="60"  />
                    <asp:BoundField DataField="Name" HeaderText="Item Name"
ItemStyle-Width="150" />
                    <asp:BoundField DataField="Quantity" HeaderText="Item
Quantity" ItemStyle-Width="150" />
                </Columns>
            </asp:GridView>
        </div>
    </form>
</body>
</html>
```

Default.aspx.cs:-

```
using System;  using
System.Collections.Generic;
using System.Linq; using
System.Web; using System.Web.UI;
using System.Web.UI.WebControls;
using System.Data;
public partial class _Default : System.Web.UI.Page
{     protected void Page_Load(object sender, EventArgs
e)      {          if (!Page.IsPostBack)
        {
            gvitems.DataSource = GetItemsRecord();
```

```
gvitems.DataBind();
        }
}
    public List<ITEM> GetItemsRecord()
    {
        BindGridViewDataContext db = new BindGridViewDataContext();
var listitemsrecord = (from x in db.ITEMs select x).ToList<ITEM>();
return listitemsrecord;
    }
}
```

LINQ query:

```
CREATE TABLE ITEMS
(
ID INT NOT NULL PRIMARY KEY,
NAME VARCHAR(100) NOT NULL,


QUANTITY  VARCHAR(100) NOT NULL
)
```

OUTPUT:

Item ID	Item Name	Item Quantity
1	Flour	500 Kg
2	Tea	20 Kg
3	Rice	1000 Kg