

## \* Working with MDI forms in window forms

In GUI applications which are of desktop type. They are two categories of applications.

① SDI Applications

② MDI Applications

### - SDI Applications:-

SDI Means Single document interface application. The applications that will allow the user to work with only one document at a time are known as SDI Applications.

Ex:- paint brush, notepad, calculator, wordpad etc.

### - MDI Applications:-

The Application that will allow the user to work with more than one document at once are known as MDI applications.

Ex:- MSWord, MS Excel, powerpoint etc.

⇒ To work with MDI applications Microsoft is providing MDI forms in windows form application.

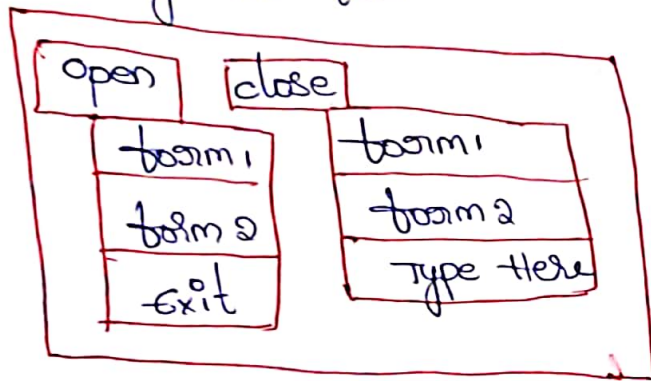
### \* Example with MDI form:-

Create a new windows form application with the name WinSampleMDI. Create form1 and form2 with following design.

This is form1

This is form2

→ Add new MDI form for the windows forms application and design the form



- public partial class formMDI : form

{

form1 obj1;

form2 obj2;

public formMDI()

{

initialize component();

}

private void btnform1\_click(object sender, EventArgs e)

{

if (obj1 == null)

obj1 = new form1();

obj1.MdiParent = this;

obj1.show();

}

private void btnform2\_click(object sender, EventArgs e)

{

if (obj2 == null)

obj2 = new form2();

obj2.MdiParent = this;

obj2.show();

}

```

private void smnuexit-click (object sender, EventArgs e)
{
    Application.Exit();
}

private void smnutorm1-click (object sender, EventArgs e)
{
    obj1.Hide();
}

private void smnutorm2-click (object sender, EventArgs e)
{
    obj2.Hide();
}

private void smnutileHorizontal-click (object sender, EventArgs e)
{
    this.LayoutMdi (MdiLayout.TileHorizontal);
}

private void smnutileVertical-click (object sender, EventArgs e)
{
    this.LayoutMdi (MdiLayout.TileVertical);
}

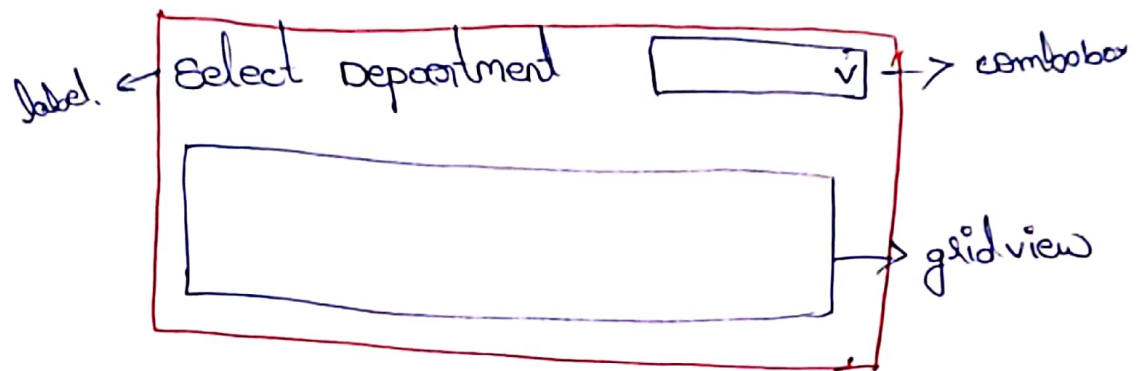
private void smnutileCascade-click (object sender, EventArgs e)
{
    this.LayoutMdi (MdiLayout.TileCascade);
}

private void smnuarrangementIcon-click (object sender,
                                           EventArgs e)
{
    this.LayoutMdi (MdiLayout.TileArrangementIcon);
}

```



→ Example two display the selected department details with in the data gridview :-



Using system-data.sql client.

public partial class form

{

SqlConnection con; SqlDataAdapter ca;

DataSet dsDept, dsEmpDetails;

bool flag = false;

private void form29\_Load (object sender, EventArgs e)

{

string constring =

con = new SqlConnection (constring);

ca = new SqlDataAdapter ("select \* from department", con);

dsDept = new DataSet ();

ca.Fill (dsDept, "dept");

comboBox1.DataSource = dsDept.Tables[0];

comboBox1.DisplayMember = "name";

comboBox1.ValueMember = "deptno";

flag = true;

}

private void comboBox1\_SelectedIndexChanged (object sender, EventArgs e);

}

it (flag)

String Query = "select \* from emp details where DeptNo=" + cmbDepartment.getSelectedValue();

Da = new SqlDataAdapter (Query, con);

DsEmpDetails = new DataSet ();

Da.Fill (DsEmpDetails, "emp");

DGV EmpDetails.DataSource = DsEmpDetails.Tables [0];

}

}

}