

Example 1 - How to pass data from One form To Other

Step 1: Add a property in form1 to retrieve value from textbox.

```
public string _textBox1
{
    get { return textBox1.Text; }
}
```

Step 2: Add a property in form2 to set the labels' text

```
public string _textBox
{
    set { textBox1.Text = value; }
}
```

Step 3: In form1's button click event handler add the following code.

```
private void button1_Click(object sender, EventArgs e)
{
    Form2 f = new Form2();
    f._textBox = _textBox1;

    f.Show();
    this.Hide();
}
```

Further if you want that the data passed from one form is not changed or deleted on other form then simply set the Read Only property of textBox1 on form 2 to true

Example 2 - Check whether form is open or not if it is open then bring it from task bar to screen and avoid opening of multiple instance of same form

First add a private variable in Initialize Component section like this

```
public partial class Form1 : Form
{
    private Form2 bm = null;
    {
        InitializeComponent();
    }

    private void button1_Click(object sender, EventArgs e)
    {
        if (bm == null)
        {
            bm = new Form2();
            bm.Closed += new EventHandler(Form2_Closed);
        }
        bm.WindowState = FormWindowState.Normal;
        bm.Show();
    }
    private void Form2_Closed(object sender, EventArgs e)
    {
        bm = null;
    }
}
```

Example 3 - Create Shortcuts after installation on Desktop

1. From Solution Explorer click your setup project.
 2. Click File System Editor (on top of Solution Explorer).
 3. When File System Editor has opened, on left tab you can see "File System on Target Machine". Click Application Folder.
 4. Then on the left tab the "Primary output from MyApp (Active)" appears. Right click it and select "Create shortcut to Primary output from MyApp (Active)". You should now see the shortcut appear below the primary output, which is your application executable.
 5. Drag & Drop that shortcut from right tab to left tabs File System on Target Machine - User's Desktop folder.
 6. Now the shortcut to your exe will appear on the desktop after install.
 7. You can click the shortcut in File System Editor and edit the Name property from Properties grid to change the text that appears on the icon.
-

Example 4 - Change the date time format on your choice

Add 3 Date Time Picker control on your form

```
private void Form1_Load(object sender, EventArgs e)
{
    dateTimePicker1.Format = DateTimePickerFormat.Custom;
    // Display the date as "Mon 26 Feb 2001".
    dateTimePicker1.CustomFormat = "dd | MM | yyyy";
    //Display the date as " 26 02 2001".
    dateTimePicker2.CustomFormat = " dd MM yyyy";
    dateTimePicker3.CustomFormat = "'Today is:' hh:mm:ss dddd
MMMM dd, yyyy";
}
```

The following code displays the date as it is entered in database irrespective of format

```
dateTimePicker1.CustomFormat = dr["dob"].ToString();
```

Example 5 - Change the error provider messages

```
private void textBox2_Validating(object sender, CancelEventArgs e)
{
    try
```

```

        {
            int x = Int32.Parse(textBox2.Text);
            errorProvider1.SetError(textBox2, "");
        }
        catch (Exception ex)
        {
            errorProvider1.SetError(textBox2, "Not an integer
value.");
        }
    }
}

```

Example 6 - Add a Clock to your Windows Form

1. First add a label to your Form1
2. Add A timer control and set its Enabled property to true from properties window
3. Double click the timer control added below the form
4. Add the following code to it

```

private void timer1_Tick(object sender, EventArgs e)
{
    label1.Text = DateTime.Now.ToLongTimeString();
}

```

Another way

```

private void timer1_Tick(object sender, EventArgs e)
{
    label1.Text = DateTime.Now.Second.ToString() ;
}

private void button1_Click(object sender, EventArgs e)
{
    if ( button1.Text == "Stop" )
    {
        button1.Text = "Start";
        timer1.Enabled = false;
    }
    else
    {
        button1.Text = "Stop";
        timer1.Enabled = true;
    }
}

private void InitializeTimer()
{
    // Set to 1 second.
    timer1.Interval = 1000;
    timer1.Enabled = true;
    button1.Text = "Stop";
}

```

```

myTimer.Elapsed +=
    new System.Timers.ElapsedEventHandler(myTimer_Elapsed);

private void myTimer_Elapsed(object sender,
System.Timers.ElapsedEventArgs e)
{
    System.Windows.Forms.MessageBox.Show("Elapsed!",
        "Timer Event Raised!");
}

private void CreateTimer()
{
    System.Timers.Timer Timer1 = new System.Timers.Timer();
    Timer1.Enabled = true;
    Timer1.Interval = 5000;
    Timer1.Elapsed +=
        new System.Timers.ElapsedEventHandler(Timer1_Elapsed);
}

private void Timer1_Elapsed(object sender,
System.Timers.ElapsedEventArgs e)
{
    System.Windows.Forms.MessageBox.Show("Elapsed!",
        "Timer Event Raised!");
}

```

Example 7 - Ask before clearing a Text Box and Picture Box

Add a picture box and textbox to Form then add following code to click event of a button1

```

private void button1_Click(object sender, EventArgs e)
{
    if (MessageBox.Show("DO U WANT TO CLEAR", "",
        MessageBoxButtons.YesNo, MessageBoxIcon.Question) == DialogResult.Yes)
    {
        textBox1.Clear();
        if (pictureBox1.Image != null)
        {
            pictureBox1.Image.Dispose();
            pictureBox1.Image = null;
        }
    }
}

```

Example 8 - Add a Progress Bar to your Windows Form

Add a progress bar to your form and add following code on double click of button

```

private void button1_Click(object sender, EventArgs e)
{
    for (int i = 0; i < 1000; i++)
    {
        progressBar1.PerformStep();
    }
}

```

Example 9 - Hiding Menu Items and Labels at Runtime

```
private void Form1_Load(object sender, EventArgs e)
{
    label2.Hide(); label3.Hide();
    toolStripMenuItem5.Enabled = false;
    toolStripMenuItem3.Enabled = false;

}
```

Example 10 - Opening File Open dialog and setting the File Filters Title of Dialog

```
private void button4_Click(object sender, EventArgs e)
{
    OpenFileDialog dlg = new OpenFileDialog();
    dlg.Multiselect = true; dlg.Title = "Select File";
    dlg.Filter = "JPEG (*.jpg;*.jpeg;*.jpe;*.jfif) |
*.jpg;*.jpeg;*.jpe;*.jfif|All Files|*.*";

    try
    {
        if (dlg.ShowDialog() == DialogResult.OK)
        {
            pictureBox1.Image = Image.FromFile(dlg.FileName);
        }
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message.ToString()); }

}
```

Example 11- Calling Third Party or Microsoft's .exe in Windows Forms

```
private void mSOfficeToolStripMenuItem_Click(object sender, EventArgs e)
{
    try { System.Diagnostics.Process.Start("winword.exe"); }
    catch (Exception ex) {
        MessageBox.Show(ex.Message.ToString()); }

}

private void backupRestoreToolStripMenuItem_Click(object sender,
EventArgs e)
{
    try { System.Diagnostics.Process.Start("C:\\Program
Files\\MySQL\\MySQL Tools for 5.0\\MySQLAdministrator.exe"); }
    catch (Exception ex) {
        MessageBox.Show(ex.Message.ToString()); }

}
```

Example12-Displaying SUM(), COUNT(), AVG(), DATABASE(),VERSION(), doirectly from database in Text Box along with the Product name Product version

```
private void FormMenu_Load(object sender, EventArgs e)
{
    dateTimePicker1.Format = DateTimePickerFormat.Custom;
    dateTimePicker1.CustomFormat = "ddd ddMMMMyyyy";

    MySqlConnection conn = new MySqlConnection();
    MySqlCommand cmd = new MySqlCommand();
    string constr =
"server=127.0.0.1;uid=root;pwd=root;database=LIBRARY;";
    conn = new MySqlConnection(constr);
    try
    {
        conn.Open();
        cmd.Connection = conn;
        cmd.CommandText = "select version() ";
        object a = cmd.ExecuteScalar();
        conn.Close();
        string c = " MySQL ";
        textBox1.Text = ProductName.ToString() +
ProductVersion.ToString() + '\n' + c + a.ToString();
    }
    catch (MySql.Data.MySqlClient.MySqlException ex)
    {
        MessageBox.Show("Error " + ex.Number + " has
occurred: " + ex.Message,
"Error", MessageBoxButtons.OK,
MessageBoxIcon.Error);
    }
}
```

Example 13 - Displaying Sliding Effects on Forms

For making sliding form effect we need to work with Win32 API functions so to call API's Functions.

So first of all import

```
using System.Runtime.InteropServices;
```

here we are calling WIN32 API function so we need to declare some constant values that will be used by function when calling it
so declare all the constants in global area of the class.

```
//Constants
const int AW_SLIDE = 0X40000;
const int AW_HOR_POSITIVE = 0X1;
const int AW_HOR_NEGATIVE = 0X2;
const int AW_BLEND = 0X80000;
```

```

[DllImport("user32")]
static extern bool AnimateWindow(IntPtr hwnd, int time,
int flags);

```

Write code in overrides OnLoad Event of the form which you want to Slide

```

protected override void OnLoad(EventArgs e)
{
    //Load the Form At Position of Main Form
    int
WidthOfMain=Application.OpenForms["MainForm"].Width;
    int HeightofMain=
Application.OpenForms["MainForm"].Height;
    int
LocationMainX=Application.OpenForms["MainForm"].Location.X ;
    int
locationMainy=Application.OpenForms["MainForm"].Location.Y;

    //Set the Location
    this.Location = new
Point(LocationMainX+WidthOfMain,locationMainy+10);

    //Animate form
    AnimateWindow(this.Handle, 500, AW_SLIDE |
AW_HOR_POSITIVE);
}

```

here in code we need to set the Sliding Window Location according to the Main window so we need to Code Some extra lines so that sliding form can slide from proper place.

and Finally I am showing you how whole code will look alike I have Two Forms MainForm from which i press Slide Button and Another Form which will slide ie Form1

MainForm Code

```

namespace SlidingEffect
{
    public partial class MainForm : Form
    {
        public MainForm()
        {
            InitializeComponent();
        }

        private void button1_Click(object sender, EventArgs e)
        {
            bool IsOpen = false;

```

```

        FormCollection fc = Application.OpenForms;
        foreach (Form f in fc)
        {
            if (f.Name == "Form1")
            {
                IsOpen = true;
                f.Focus();
                break;
            }
        }

        if (IsOpen == false)
        {
            Form1 form = new Form1();
            form.Show();
        }
    }
}

```

Form1 Code (form Which will Slide From MainForm)

```

-----
public partial class Form1 : Form
{
    //Constants
    const int AW_SLIDE = 0X40000;
    const int AW_HOR_POSITIVE = 0X1;
    const int AW_HOR_NEGATIVE = 0X2;
    const int AW_BLEND = 0X80000;

    [DllImport("user32")]
    static extern bool AnimateWindow(IntPtr hwnd, int time,
int flags);

    public Form1()
    {
        InitializeComponent();
    }

    protected override void OnLoad(EventArgs e)
    {
        //Load the Form At Position of Main Form
        int
WidthOfMain=Application.OpenForms["MainForm"].Width;
        int HeightofMain=
Application.OpenForms["MainForm"].Height;
        int
LocationMainX=Application.OpenForms["MainForm"].Location.X ;
        int
locationMainy=Application.OpenForms["MainForm"].Location.Y;
    }
}

```

```

        //Set the Location
        this.Location = new
Point(LocationMainX+WidthOfMain,locationMainy+10);

        //Animate form
        AnimateWindow(this.Handle, 500, AW_SLIDE |
AW_HOR_POSITIVE);
    }

    private void button1_Click(object sender, EventArgs e)
    {
        this.Close();
    }
}

```

```

string WorkingDirectory = Application.StartupPath + "\\";
string constr = @"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" +
WorkingDirectory + "icard.mdb;Persist Security Info=True";

```

```

crystalReportViewer1.ReportSource = Application.StartupPath + "\\\" +
"CrystalLibraryReport2.rpt";
crystalReportViewer1.ReportSource = (@".\CrystalLibraryReport2.rpt");

```

Example -14 Play sounds when Form Loads

```

using System.Media;

private void playSimpleSound()
{
    SoundPlayer simpleSound = new SoundPlayer(@".\Speech
On.wav");
    simpleSound.Play(); //@"c:\Windows\Media\Speech On.wav"
}
public void playExclamation()
{
    SystemSounds.Exclamation.Play();
}
private void Form1_Load(object sender, EventArgs e)
{
    playSimpleSound();playExclamation();
}

```

Get Operating Systems Name in Java

```

class GetPropertyDemo

```

```

{
    public static void main(String args[])
    {
        // Display value for machine type and OS
        System.out.println ( System.getProperty("os.arch") +
                             " running " +
                             System.getProperty("os.name") );
    }
}

```

Example 15 - Inserting jpeg images in MS Acces Database from Picture Box

```

string WorkingDirectory = Application.StartupPath + "\\\";
string constr = @"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" +
WorkingDirectory + "icard.mdb;Persist Security Info=True";
OleDbConnection con = new OleDbConnection();
con.ConnectionString = constr;
con.Open();
OleDbCommand cmd = new OleDbCommand();
string inst = "insert into
stud(rollbatchno,name,fname,dob,course,duration,address,issuedate,valid
upto,photo,contact) values('" + textBox5.Text + "','" + textBox1.Text +
 "','" + textBox2.Text + "','" + dateTimePicker1.Text + "','" +
comboBox1.Text + "','" + textBox4.Text + "','" + textBox3.Text + "','" +
dateTimePicker2.Text + "','" + dateTimePicker3.Text +
 "','" + @BLOBData, '"+textBox6.Text+"'')";

cmd.CommandText = inst;
cmd.Connection = con;
MemoryStream ms = new MemoryStream();
pictureBox1.Image.Save(ms, ImageFormat.Jpeg);
    //Read from MemoryStream into Byte array.
Byte[] bytBLOBData = new Byte[ms.Length];
ms.Position = 0;
ms.Read(bytBLOBData, 0, Convert.ToInt32(ms.Length));
    //Create parameter for insert statement that contains image.
OleDbParameter prm = new OleDbParameter("@BLOBData",
OleDbType.VarBinary, bytBLOBData.Length, ParameterDirection.Input,
false, 0, 0, null, DataRowVersion.Current, bytBLOBData);
cmd.Parameters.Add(prm);
cmd.ExecuteNonQuery();
    try
    {
        playSound();
    }
    catch (Exception ex)
    {
        MessageBox.Show(ex.Message.ToString());
    }
MessageBox.Show("Data Entry OK", "I-CARD", MessageBoxButtons.OK,
MessageBoxIcon.Exclamation);
con.Close();
pictureBox1.Image.Dispose(); pictureBox1.Image = null;
label17.ResetText();

```

Example 16 - Retrieving jpeg images from MS Acces Database in Picture Box

```
string WorkingDirectory = Application.StartupPath + "\\\";
string constr = @"Provider=Microsoft.Jet.OLEDB.4.0;Data Source=" +
WorkingDirectory + "icard.mdb;Persist Security Info=True";
OleDbConnection con = new OleDbConnection(constr);
OleDbCommand cmd = new OleDbCommand("SELECT * FROM STUD where
rollbatchno='" + textBox5.Text + "'", con);
OleDbDataAdapter da = new OleDbDataAdapter(cmd.CommandText, con);
da.Fill(ds, "STUD");
    foreach (DataRow dr in ds.Tables[0].Rows)
    {
        textBox1.Text = dr["name"].ToString();
        textBox2.Text = dr["fname"].ToString();
        dateTimePicker1.CustomFormat = dr["dob"].ToString();
        comboBox1.Text = dr["course"].ToString();
        textBox4.Text = dr["duration"].ToString();
        textBox3.Text = dr["address"].ToString();
        dateTimePicker2.CustomFormat = dr["issuedate"].ToString();
        dateTimePicker3.CustomFormat = dr["validupto"].ToString();
        textBox6.Text = dr["contact"].ToString();
        Byte[] byteBLOBData = new Byte[0];
        byteBLOBData = (Byte[]) (ds.Tables[0].Rows[0]["photo"]);
        MemoryStream stmBLOBData = new MemoryStream(byteBLOBData);
        pictureBox1.Image = Image.FromStream(stmBLOBData);
    }
}
```

Example 17 - Getting Information about Computer

```
private void button7_Click(object sender, EventArgs e)
{
    string User = SystemInformation.UserName;
    string Domain = SystemInformation.UserDomainName;
    MessageBox.Show("Good morning " + User + ". You are connected
to " + Domain);
}
```

Example 18 - Play .wav Files from Forms

```
private void button9_Click(object sender, EventArgs e)
{
    OpenFileDialog dialog = new OpenFileDialog();
    dialog.Filter = "Audio Files (.wav)|*.wav";

    if (dialog.ShowDialog() == DialogResult.OK)
    {
        string path = dialog.FileName;
        playSound(path);
    }
}
```

```

private void playSound(string path)
{
    System.Media.SoundPlayer player =
        new System.Media.SoundPlayer();
    player.SoundLocation = path;
    player.Load();
    player.Play();
}

```

Example 19 - Check length of text box

```

private void button6_Click(object sender, EventArgs e)
{
    string s = textBox1.Text;
    int a = s.Length;
    if (a < 10) { MessageBox.Show("ISBN is Not 10 DIGIT"); }
}

```

Example 20 – Refine text box input

```

private void textBox4_KeyPress(object sender, KeyPressEventArgs e)
{
    if (e.KeyChar != 8 && (e.KeyChar < 65 || e.KeyChar > 90) &&
        (e.KeyChar < 97 || e.KeyChar > 122))
        e.Handled = true;
}

private void textBox5_KeyPress(object sender, KeyPressEventArgs
e)
{
    if ((e.KeyChar < 48 || e.KeyChar > 57) && e.KeyChar != 8 )
        e.Handled = true;
}

```

Example 21 – Disable Menu Items after moving from one form to other

```

Form6 f = new Form6();
    f.Show();
    // f.nEWToolStripMenuItem.Enabled = false;
    f.eDITINTYToolStripMenuItem.Enabled = false;

```

this.Hide();

make the modifiers as public

Example 22 – Write Images Stored In MySQL to Disk

```

private void button1_Click(object sender, EventArgs e)
{
    MySqlConnection con = new
MySqlConnection("Server=localhost;uid=root;database=Library");
    MySqlDataAdapter da = new MySqlDataAdapter("Select * From
member", con);
    MySqlCommandBuilder MyCB = new MySqlCommandBuilder(da);
    DataSet ds = new DataSet("member");

    byte[] MyData = new byte[0];
}

```

```

        da.Fill(ds, "member");
        DataRow myRow;
        myRow = ds.Tables["member"].Rows[0];

        MyData = (byte[])myRow["photo"];
        int ArraySize = new int();
        ArraySize = MyData.GetUpperBound(0);

        FileStream fs = new FileStream(@"C:\DBMS Photo.jpg",
        FileMode.OpenOrCreate, FileAccess.Write);
        fs.Write(MyData, 0, ArraySize);
        fs.Close();
    }

```

Example 23 – Insert Mp3 in MySQL Database

```

private void button3_Click(object sender, EventArgs e)
{
    MySqlConnection conn = new
    MySqlConnection("Server=localhost;uid=root;database=recharge");

    MySqlCommand cmd = null;
    MySqlParameter param = null;

    cmd = new MySqlCommand("INSERT INTO abc SET song =
    @BLOBPARAM ", conn);

    FileStream fs = null;
    fs = new FileStream("C:\\C.mp3", FileMode.Open, FileAccess.Read);
    Byte[] blob = new Byte[fs.Length];
    fs.Read(blob, 0, blob.Length);
    fs.Close();

    param = new MySqlParameter("@BLOBPARAM", MySqlDbType.VarBinary,
    blob.Length,
    ParameterDirection.Input, false, 0, 0, null, DataRowVersion.Current,
    blob);
    cmd.Parameters.Add(param);
    conn.Open();
    cmd.ExecuteNonQuery();
}

```

Example 24 – Write Mp3 in MySQL Database to Disk

```
Private void button2_Click(object sender, EventArgs e)
{
    MySqlConnection con = new
MySqlConnection("Server=localhost;uid=root;database=recharge");
    MySqlDataAdapter da = new MySqlDataAdapter("Select * From
abc", con);
    MySqlCommandBuilder MyCB = new MySqlCommandBuilder(da);
    DataSet ds = new DataSet("abc");

    byte[] MyData = new byte[0];

    da.Fill(ds, "abc");
    DataRow myRow;
    myRow = ds.Tables["abc"].Rows[0];

    MyData = (byte[])myRow["song"];
    int ArraySize = new int();
    ArraySize = MyData.GetUpperBound(0);

    FileStream fs = new FileStream(@"C:\\DMMS.mp3",
FileMode.OpenOrCreate, FileAccess.Write);
    fs.Write(MyData, 0, ArraySize);
    fs.Close();
}
```

Example 25 – Insert PDF in MySQL Database

```
MySqlConnection conn = new
MySqlConnection("Server=localhost;uid=root;database=recharge");
    MySqlCommand cmd = null;
    MySqlParameter param = null;

    cmd = new MySqlCommand("INSERT INTO abc SET song =
@BLOBPARAM ", conn);
    string a = textBox1.Text;
    FileStream fs = null;
    fs = new FileStream("C:\\A.pdf", FileMode.Open,
FileAccess.Read);
    Byte[] blob = new Byte[fs.Length];
    fs.Read(blob, 0, blob.Length);
    fs.Close();

    param = new MySqlParameter("@BLOBPARAM",
MySqlDbType.VarBinary, blob.Length,
    ParameterDirection.Input, false, 0, 0, null,
DataRowVersion.Current, blob);
    cmd.Parameters.Add(param);
    conn.Open();
    cmd.ExecuteNonQuery();
```

Example 26 – Write PDF in MySQL Database to Disk

```
MySqlConnection con = new
MySqlConnection("Server=localhost;uid=root;database=recharge");
    MySqlDataAdapter da = new MySqlDataAdapter("Select * From
abc", con);
    MySqlCommandBuilder MyCB = new MySqlCommandBuilder(da);
    DataSet ds = new DataSet("abc");

    byte[] MyData = new byte[0];

    da.Fill(ds, "abc");
    DataRow myRow;
    myRow = ds.Tables["abc"].Rows[0];

    MyData = (byte[])myRow["song"];
    int ArraySize = new int();
    ArraySize = MyData.GetUpperBound(0);

    FileStream fs = new FileStream(@"C:\\DBMS.pdf",
FileMode.OpenOrCreate, FileAccess.Write);
    fs.Write(MyData, 0, ArraySize);
    fs.Close();
```