

```
using System.IO;
using JRO;
using System;
using System.Windows.Forms;

// This is the code for your desktop app.
// Press Ctrl+F5 (or go to Debug > Start Without Debugging) to run your app.

namespace TestReadAccessDB
{
    public partial class FrmMain : Form
    {
        public FrmMain()
        {
            InitializeComponent();
        }

        public static class G1 // global variables
        {
            // Word
            public static Microsoft.Office.Interop.Word.Application WordApp =
                new Microsoft.Office.Interop.Word.Application();
            public static Microsoft.Office.Interop.Word.Document WordDoc;
            public static string sWordPath;
            public static string sWordFileName;
            public static string sTextPath; // list of Word document paths
            public static int iNumWordFiles; // lines in above text file, or 1
            public static int iCurrWordFileNum;
            // Access
            public static ADODB.Connection cn = new ADODB.Connection();
            public static ADODB.Recordset rs = new ADODB.Recordset();
            public static string sConn;
            public static string sPart1AccessMDBString =
                "Provider=Microsoft.Jet.OLEDB.4.0;Data Source=";
            public static string sPart2AccessString = ";Jet OLEDB:Database
                Password=''";
            public static object dummy = Type.Missing; // for Access INSERT/UPDATE/
                DELETE
            // general
            public static int x; // keeps track of what char in the Word doc we're on
            public static int iOrder; // order of items in worship,
                WorshipActivityInstances
            public static int iLineNo; // line being processed on current document
            public static string sWorshipDate;
            public static string sPageNo;
            public static string sKey;
            public static Boolean bIsKey;
            public static string sSongTitle;
            public static char cSongType; // from check song form
        } // G1 - global variables

        private int ActivityLeaderID(string psActivityLeaderName)
```

```
{  
    // This function receives an activity leader's name,  
    // and looks for the person's ID. If the person is  
    // not in the Persons table, the person is added  
    // to it. Either way, the person's ID is returned.  
    if(psActivityLeaderName == "")  
    || psActivityLeaderName == "?")  
        return 0; // unknown  
    ADODB.Recordset rs = new ADODB.Recordset();  
    string[] asNames; // will hold first and last name separately  
    int iID;  
    string sFirstName;  
    string sLastName;  
    asNames = psActivityLeaderName.Split(' ');  
    switch(asNames.Length)  
    {  
        case 2: // assumed first and last name, 1 space  
            sFirstName = asNames[0]; // first name  
            sLastName = asNames[1]; // last name  
            break;  
        case 3: // assumed first name, and 2-part last name, 2 spaces  
            sFirstName = asNames[0]; // first name  
            sLastName = asNames[1] + " " + asNames[2]; // last name  
            break;  
        case 1: // assumed first name only, no spaces  
            sFirstName = asNames[0]; // first name  
            sLastName = ""; // last name  
            break;  
        case 0:  
            MessageBox.Show("Activity leader on line " + Gl.iLineNo +  
                " is blank; please fix."); // should never happen here  
            return 0;  
        default:  
            MessageBox.Show("The name \" " + psActivityLeaderName +  
                " \" contains " + asNames.Length + " parts. Unable to use.");  
            return 0;  
    }  
    rs.Open("SELECT ID FROM Persons" +  
        " WHERE FirstName = " + Literal(sFirstName) +  
        " AND LastName = " + Literal(sLastName), Gl.cn,  
        ADODB.CursorTypeEnum.adOpenDynamic,  
        ADODB.LockTypeEnum.adLockOptimistic);  
    if(rs.BOF && rs.EOF) // person not found, add  
    {  
        iID = NextAvailableIDNumber("Persons");  
        Gl.cn.Execute("INSERT INTO Persons VALUES(" +  
            iID +  
            ", " + Literal(sFirstName) +  
            ", " + Literal(sLastName) + ", '')",  
            out Gl.dummy, 0);  
    }  
    else // person found
```

```
        {
            rs.MoveFirst();
            iID = rs.Fields["ID"].Value;
        }
        return iID;
    } // ActivityLeaderID

    private void AddSong()
    {
        string sBookID;
        int iID;
        // see if song is already in the Songs table
        iID = GetSongID();
        if (iID != 0) // song in input file found
            G1.cSongType = 'Y';
        else
        {
            // not in Songs table, see if misspelled, truncated, actually need to ↵
            // add,
            // pull up Check Song form, which will set cSongType to 'S', 'N' or ↵
            // 'E'
            // and put song title to be used in sSongTitle, if not already there
            frmCheckSong formCheckSong = new frmCheckSong();
            formCheckSong.ShowDialog();
        }
        switch(G1.cSongType)
        {
            case 'Y': // do nothing, we already have the ID
                break;
            case 'N':
            case 'E': // add new song, from input file ('N'), or user typed on ↵
                // form ('E')
            {
                // add song
                iID = NextAvailableIDNumber("Songs");
                if (G1.sPageNo == "")
                    sBookID = "NULL";
                else
                    sBookID = DefaultBookID();
                G1.cn.Execute("INSERT INTO Songs VALUES (" + iID +
                    ", " + Literal(G1.sSongTitle) + ", '', '', '' , " +
                    Literal(G1.sKey) + ", " + Literal(G1.sPageNo) + ", " + sBookID +
                    ", NULL, NULL, NULL, NULL, NULL, NULL, NULL, NULL)", ↵
                    out G1.dummy, 0);
                break;
            }
            case 'S': // existing song selected from drop-down in Check Song form
                iID = GetSongID();
                break;
        } // switch
        // either way, add record to WorshipActivityInstances;
```

```
// worship leader will be filled in later, 0 for now
G1.cn.Execute("INSERT INTO WorshipActivityInstances VALUES (" +
    NextAvailableIDNumber("WorshipActivityInstances") + ", 1, " + iID +
    ", 0, " + G1.iOrder + ", " + Literal(G1.sWorshipDate) + "," +
    " '" + G1.sWordFileName + "', NULL, '" +
    DateTime.Today.ToShortDateString() + "')", out G1.dummy, 0);
} // AddSong

private void CmdAccessBrowse_Click(object sender, EventArgs e)
{
    OpenFileDialog dlgAccess = new OpenFileDialog
    {
        InitialDirectory = "c:\\\\",
        Filter = "Database files (*.mdb)|*.mdb",
        FilterIndex = 0,
        RestoreDirectory = true
    };
    if (dlgAccess.ShowDialog() == DialogResult.OK)
        txtAccessFilePath.Text = dlgAccess.FileName;
} // CmdAccessBrowse_Click

private void CmdCompactRepair_Click(object sender, EventArgs e)
{
    int x;
    int iDotBeforeSuffix;
    string sTempAccessFilePath = "";
    x = txtAccessFilePath.Text.Length - 1;
    while (txtAccessFilePath.Text.Substring(x, 1) != ".")
        x--;
    iDotBeforeSuffix = x;
    for(x = 0; x != iDotBeforeSuffix; x++)
        sTempAccessFilePath += txtAccessFilePath.Text.Substring(x, 1);
    sTempAccessFilePath += "_TEMP";
    while(x <= txtAccessFilePath.Text.Length - 1)
    {
        sTempAccessFilePath += txtAccessFilePath.Text.Substring(x, 1);
        x++;
    }
    string fOldAccessFile;
    string fNewAccessFile;
    fOldAccessFile = G1.sPart1AccessMDBString + txtAccessFilePath.Text +
        G1.sPart2AccessString;
    fNewAccessFile = G1.sPart1AccessMDBString + sTempAccessFilePath +
        G1.sPart2AccessString;
    JetEngine engine = new JetEngine();
    engine.CompactDatabase(fOldAccessFile, fNewAccessFile);
    File.Delete(txtAccessFilePath.Text);
    File.Move(sTempAccessFilePath, txtAccessFilePath.Text);
    MessageBox.Show("Database compact and repaired successfully!");
} // CmdCompactRepair_Click

private void CmdExit_Click(object sender, EventArgs e)
```

```
{  
    G1.WordApp.Quit();  
    Close();  
} // CmdExit_Click  
  
private void CmdImport_Click(object sender, EventArgs e)  
{ // THE MAIN PROCEDURE OF THE WHOLE IMPORT  
    G1.cn.Open(G1.sConn); // open Access DB  
    if (radWord.Checked)  
    {  
        G1.sWordPath = txtWordFilePath.Text;  
        G1.WordDoc = G1.WordApp.Documents.Add(txtWordFilePath.Text);  
        G1.iCurrWordFileNum = 1;  
        G1.iNumWordFiles = 1;  
        ProcessOneInputDocument();  
    }  
    else  
        ProcessAllInputDocumentsInTextDocument();  
    G1.cn.Close(); // close Access DB  
    lblProcessing.Text = "";  
    MessageBox.Show("Done.");  
} // CmdImport_Click  
  
private void CmdWordBrowse_Click(object sender, EventArgs e)  
{  
    OpenFileDialog dlgAccess = new OpenFileDialog();  
    dlgAccess.InitialDirectory = "c:\\\";  
    if (radWord.Checked)  
        dlgAccess.Filter = "Word files (*.doc, *.docx)|*.doc;*.docx";  
    else  
        dlgAccess.Filter = "Text files (*.txt)|*.txt";  
    dlgAccess.FilterIndex = 0;  
    dlgAccess.RestoreDirectory = true;  
    if (dlgAccess.ShowDialog() == DialogResult.OK)  
    {  
        txtWordFilePath.Text = dlgAccess.FileName;  
    }  
} // CmdWordBrowse_Click  
  
private string DefaultBookID()  
{  
    int iID;  
    ADODB.Recordset rs = new ADODB.Recordset();  
    rs.Open("SELECT TOP 1 DefaultBookID FROM Misc", G1.cn,  
        ADODB.CursorTypeEnum.adOpenDynamic,  
        ADODB.LockTypeEnum.adLockOptimistic);  
    if (rs.BOF && rs.EOF)  
        iID = 0;  
    else  
    {  
        rs.MoveFirst();  
        iID = rs.Fields["DefaultBookID"].Value;  
    }  
}
```

```
        }
        rs.Close();
        return iID.ToString();
    } // DefaultBookID

    private void ExtractKey()
    {
        Gl.sKey = "";
        while (Gl.WordDoc.Characters[Gl.x].Text != ")")
        {
            Gl.sKey += Gl.WordDoc.Characters[Gl.x].Text;
            Gl.x++;
        }
        // if the key has a dot on the end of the name (ex: "E min."), remove it
        if (Gl.sKey.Substring(Gl.sKey.Length - 1, 1) == ".")
            Gl.sKey = Gl.sKey.Substring(0, Gl.sKey.Length-1);
        // see if it's really a key, and not part of the song title
        switch (Gl.sKey)
        {
            case "C":
            case "C min":
            case "C#":
            case "C# min/E":
            case "C# min":
            case "Db":
            case "Db min":
            case "D":
            case "D min":
            case "D#":
            case "D# min":
            case "Eb":
            case "Eb min":
            case "E":
            case "E min":
            case "E/F#":
            case "F":
            case "F/G":
            case "F min":
            case "F#":
            case "F# min":
            case "F# min./A":
            case "Gb":
            case "Gb min":
            case "G":
            case "G min":
            case "G#":
            case "G# min":
            case "Ab":
            case "Ab min":
            case "A":
            case "A min":
            case "A/B":
```

```
        case "A#":
        case "A# min":
        case "Bb":
        case "Bb min":
        case "B":
        case "B min":
            Gl.bIsKey = true;
            break;
        default:
            Gl.bIsKey = false;
            // add "non-key" to end of song title
            Gl.sSongTitle += " (" + Gl.sKey + ")";
            break;
    }
} // ExtractKey

private void ExtractPageNumber()
{
    Gl.sPageNo = "";
    while (Gl.WordDoc.Characters[Gl.x].Text != ")")
    {
        Gl.sPageNo += Gl.WordDoc.Characters[Gl.x].Text;
        Gl.x++;
    }
} // ExtractPageNumber

private int GetSongID()
{
    int iID;
    Gl.rs.Open("SELECT ID FROM Songs" +
               " WHERE SongTitle = " + Literal(Gl.sSongTitle) +
               " OR AltSongTitle1 = " + Literal(Gl.sSongTitle) +
               " OR AltSongTitle2 = " + Literal(Gl.sSongTitle), Gl.cn,
               ADODB.CursorTypeEnum.adOpenDynamic,
               ADODB.LockTypeEnum.adLockOptimistic);
    if (!Gl.rs.BOF || !Gl.rs.EOF) // found the song, get its ID
    {
        Gl.rs.MoveFirst();
        iID = Gl.rs.Fields["ID"].Value;
    }
    else // song not there, ID set to 0
        iID = 0;
    Gl.rs.Close();
    return iID;
} // GetSongID

private Boolean IsNumeric(string psChar)
{
    char cChar;
    cChar = psChar[0];
    if (cChar >= '0' && cChar <= '9')
        return true;
```

```
        else
            return false;
    } // IsNumeric

    private string Literal(string psInput)
    {
        // This function receives a string, and outputs
        // the same string, except it has single quotes
        // added to both ends, and also doubles any
        // single quotes in the text, to make it clear
        // they are single quote characters, and not
        // delimiters. Example: "can't" becomes "'can''t'".
        // It also does the same thing to "irregular" apostrophes
        // from Word, converting them to "normal" apostrophes.
        int x;
        string sOutput = "";
        for (x = 0; x <= psInput.Length - 1; x++)
            switch(psInput.Substring(x, 1))
            {
                case '': // "normal" apostrophe
                case '': // "irregular" apostrophe
                    sOutput += "''";
                    break;
                default:
                    sOutput += psInput.Substring(x, 1);
                    break;
            }
        sOutput += "";
        return sOutput;
    } // Literal

    private int NextAvailableIDNumber(string psTableName)
    {
        // DO NOT USE THIS WITH TABLE "Users"!!
        // This function receives a table name, and returns the next
        // available ID number which should be used. I don't like the way the
        // default Access AutoNumber process leaves holes in the numbering
        // if something is removed; this will fill them in.
        ADODB.Recordset rs = new ADODB.Recordset();
        int iNextIDNumber;
        Boolean bAvailableNumberFound;
        rs.Open("SELECT ID FROM " + psTableName, G1.cn,
            ADODB.CursorTypeEnum.adOpenDynamic,
            ADODB.LockTypeEnum.adLockOptimistic);
        iNextIDNumber = 1;
        // if no records, it will stay at 1, else code below
        if(!rs.BOF || !rs.EOF) // find first hole, if any, or tack to end
        {
            bAvailableNumberFound = false;
            rs.MoveFirst();
            while(!rs.EOF && !bAvailableNumberFound)
            {
```

```
        if (rs.Fields["ID"].Value > iNextIDNumber) // found a hole
            bAvailableNumberFound = true;
        else
        {
            iNextIDNumber++;
            rs.MoveNext();
        }
    }
    rs.Close();
    return iNextIDNumber;
} // NextAvailableIDNumber

private void NukeRecordsForWorshipDate()
{
    // Apparently the user has chosen to replace existing records for
    // the worship date with ones generated by the new input document.
    Gl.cn.Execute("DELETE FROM WorshipActivityInstances" +
        " WHERE ActivityDate = #" + Gl.sWorshipDate + "#",
        out Gl.dummy, 0);
} // NukeRecordsForWorshipDate

private void ProcessAllInputDocumentsInTextDocument()
{
    // If this is being run, the user has chosen to read
    // a text document listing Word documents (each line has
    // the path to one Word document). This loops through the
    // text document, and processes each Word deocument whose
    // path is in it.
    int x;
    string[] asTextLines = System.IO.File.ReadAllLines(Gl.sTextPath);
    Gl.iNumWordFiles = asTextLines.Length;
    for(x=0;x<=asTextLines.Length-1;x++)
    {
        Gl.iCurrWordFileNum = x + 1;
        Gl.WordDoc = Gl.WordApp.Documents.Add(asTextLines[x]);
        Gl.sWordPath = asTextLines[x];
        ProcessOneInputDocument();
    }
} // ProcessAllInputDocumentsInTextDocument

private void ProcessOneInputDocument()
{
    Gl.iLineNo = 0;
    UpdateLabel();
    if (!ValidFirstLineDate())
        return;
    while (Gl.x <= Gl.WordDoc.Characters.Count) // not end of document
    {
        ProcessOneLine();
        SkipToBeginningOfNextLine();
    }
}
```

```
    } // ProcessOneInputDocument

    private void ProcessOneLine()
    {
        // This will process one line of the input file. It
        // looks to see if the first character of the line is
        // bold or not. If not, it's a song line; if so, it's
        // something else.
        Gl.iOrder++;
        if(Gl.WordDoc.Characters[Gl.x].Bold == -1) // bold
            ProcessOneNonSongActivity();
        else // 0, not bold
            ProcessOneSong();
    } // ProcessOneLine

    private void ProcessOneNonSongActivity()
    {
        string sActivityType;
        string sActivityLeaderName;
        int iActivityID;
        // line begins with *, last line, we don't do anything
        // with it, skip
        if (Gl.WordDoc.Characters[Gl.x].Text == "*")
            return;
        sActivityType = "";
        while(Gl.WordDoc.Characters[Gl.x].Text != "-"
            && Gl.WordDoc.Characters[Gl.x].Text != "\t")
        {
            sActivityType += Gl.WordDoc.Characters[Gl.x].Text;
            Gl.x++;
        }
        sActivityLeaderName = "";
        // we're on tab or dash; if dash, get activity leader
        // otherwise, there isn't one listed
        if (Gl.WordDoc.Characters[Gl.x].Text == "-")
        {
            Gl.x++;
            while (Gl.WordDoc.Characters[Gl.x].Text != "\t")
            {
                sActivityLeaderName += Gl.WordDoc.Characters[Gl.x].Text;
                Gl.x++;
            }
        } // if dash, get activity leader
        // adjust for "backwards compatibility" for some older terms we don't use ↵
        // in the list now
        switch(sActivityType)
        {
            case ("Shepherd's Prayer"): //apostrophe not standard, but from Word
            case ("shepherd's prayer"): //apostrophe not standard, but from Word
            case ("Shepherd's Prayer"): //normal apostrophe
            case ("shepherd's prayer"): //normal apostrophe
                sActivityType = "opening prayer";
        }
    }
```

```
        break;
    case "Song leader":
    case "song leader":
        sActivityType = "worship leader";
        break;
    case "Sermon":
        sActivityType = "sermon";
        break;
    case "kids leave on next song": // don't do anything with this, move ↵
        on
        return;
    }
    if (sActivityType.Length >= 6
    && (sActivityType.Substring(0, 6) == "sermon"
    || sActivityType.Substring(0, 6) == "Sermon")) // "sermon" plus other ↵
        stuff
        sActivityType = "sermon"; // just "sermon"
    if (sActivityType != "worship leader")
    {
        G1.rs.Open("SELECT ID FROM WorshipActivities" +
            " WHERE Activity = " + Literal(sActivityType),
        G1.cn, ADODB.CursorTypeEnum.adOpenDynamic,
        ADODB.LockTypeEnum.adLockOptimistic);
        if(!G1.rs.BOF || !G1.rs.EOF) // found a record
        {
            iActivityID = G1.rs.Fields["ID"].Value;
            G1.cn.Execute("INSERT INTO WorshipActivityInstances VALUES (" +
                NextAvailableIDNumber("WorshipActivityInstances") + ", " + ↵
                iActivityID + ", NULL, " +
                ActivityLeaderID(sActivityLeaderName) + ", " + G1.iOrder + ", " ↵
                "#" + G1.sWorshipDate + "#," +
                " '" + G1.sWordFileName + "', NULL, #" +
                DateTime.Today.ToShortDateString() + "#)", out G1(dummy, 0);
        }
        else // no record for that worship activity
        {
            MessageBox.Show("Worship activity \\" + sActivityType + "\\" not ↵
                found; " +
                " will not be added. Maybe misspelled or program needs to be ↵
                updated.");
        }
        G1.rs.Close();
    } // if
    else // worship leader
    {
        // find worship leader's ID and update ALL song records
        // (already added) with it for worship date
        G1.cn.Execute("UPDATE WorshipActivityInstances SET PersonID = " +
            ActivityLeaderID(sActivityLeaderName) +
            " WHERE ActivityDate = #" + G1.sWorshipDate +
            "# AND ActivityID = 1", // worship date, songs
            out G1(dummy, 0);
```

```
        }
    } // ProcessOneNonSongActivity

private void ProcessOneSong()
{
    G1.sSongTitle = "";
    G1.sKey = "";
    G1.sPageNo = "";
    // if 1st char "(", not really a song,
    // or EOF, skip
    if (G1.WordDoc.Characters[G1.x].Text == "("
    || G1.x >= G1.WordDoc.Characters.Count)
        return;
    // get song title
    while(G1.WordDoc.Characters[G1.x].Text != "("
    && G1.WordDoc.Characters[G1.x].Text != "\t")
    {
        G1.sSongTitle += G1.WordDoc.Characters[G1.x].Text;
        G1.x++;
    }
    G1.sSongTitle = G1.sSongTitle.Trim();
    // Now we're pointing to either a left paren or tab. If
    // tab, no key or page number. If left paren, it could be
    // a page number or key, and if page number, there could be a key
    // after that, both inside parentheses. Let's check for those...
    if (G1.WordDoc.Characters[G1.x].Text == "(")
    {
        G1.x++; // at 1st char of key or page #
        // loop through any keys or page #s before hitting tab, or EOF
        while (G1.WordDoc.Characters[G1.x].Text != "\t")
        {
            if (IsNumeric(G1.WordDoc.Characters[G1.x].Text)) // page #
                ExtractPageNumber();
            else // probably key, could be part of song title after left paren
                ExtractKey();
            // now pointing to right paren; move until we find char
            // after left paren (beginning of another page # or key)
            // or tab (done with page # and key)
            //while (G1.WordDoc.Characters[G1.x].Text != "("
            //    && G1.WordDoc.Characters[G1.x].Text != "\t")
            while (G1.WordDoc.Characters[G1.x].Text != "("
            && G1.WordDoc.Characters[G1.x].Text != "\t")
                G1.x++;
            if (G1.WordDoc.Characters[G1.x].Text == "(")
                G1.x++;
        }
        } // done extracting any page # &/or key
    } // done extracting any page # &/or key IF any
    // Add song in Songs table if needed,
    // add record to WorshipActivityInstances
    AddSong();
} // ProcessOneSong
```

```
private void radWord_CheckedChanged(object sender, EventArgs e)
{
    if (radWord.Checked) // Word document
    {
        lblWordOrText.Text = "Select the Word file (not needed for Compact && Repair):";
    }
    else // text document with list of Word documents
    {
        lblWordOrText.Text = "Select the text file (not needed for Compact && Repair):";
    }
    txtWordFilePath.Text = "";
} // radWord_CheckedChanged

private Boolean RecordsExistForWorshipDate()
{
    // See if records exist for this worship date. If so,
    // user will be prompted to see if they want to nuke these
    // records and replace them. If not, the input document
    // will not be imported.
    ADODB.Recordset rs = new ADODB.Recordset();
    Boolean bRecordsExist;
    rs.Open("SELECT COUNT(*) AS RecCount FROM WorshipActivityInstances" +
        " WHERE ActivityDate = #" + G1.sWorshipDate + "#", G1.cn,
        ADODB.CursorTypeEnum.adOpenDynamic,
        ADODB.LockTypeEnum.adLockOptimistic);
    rs.MoveFirst();
    bRecordsExist = rs.Fields["RecCount"].Value > 0;
    rs.Close();
    return bRecordsExist;
} // RecordsExistForWorshipDate

private void SkipToBeginningOfNextLine()
{
    while (G1.x <= G1.WordDoc.Characters.Count
        && G1.WordDoc.Characters[G1.x].Text != "\r")
        G1.x++;
    G1.x++;
    UpdateLabel();
} // SkipToBeginningOfNextLine

private void TxtAccessFilePath_TextChanged(object sender, EventArgs e)
{
    // Only enable the Import button if there's something in both
    // txtAccessFilePath and txtWordFilePath. Check when either
    // changes and enable/disable the Run button accordingly.
    cmdImport.Enabled = txtAccessFilePath.Text != ""
        && txtWordFilePath.Text != "";
    // set connection string
    G1.sConn = G1.sPart1AccessMDBString + txtAccessFilePath.Text +
        G1.sPart2AccessString;
```

```
// Only enable the Compact & Repair button if there's something in
// txtAccessFilePath
cmdCompactRepair.Enabled = txtAccessFilePath.Text != "";
} // TxtAccessFilePath_TextChanged

private void TxtWordFilePath_TextChanged(object sender, EventArgs e)
{
    // Only enable the Import button if there's something in both
    // txtAccessFilePath and txtWordFilePath. Check when either
    // changes and enable/disable the Run button accordingly.
    cmdImport.Enabled = txtAccessFilePath.Text != ""
        && txtWordFilePath.Text != "";
    if(radText.Checked)
        Gl.sTextPath = txtWordFilePath.Text;
} // TxtWordFilePath_TextChanged

private void UpdateLabel()
{
    Gl.iLineNo++;
    lblProcessing.Text = "Processing \"\" + Gl.sWordFileName +
        "\", file " + Gl.iCurrWordFileNum + " of " + Gl.iNumWordFiles +
        ", line " + Gl.iLineNo + "...";
} // UpdateLabel

private Boolean ValidFirstLineDate()
{ // All we want out of this line is the date, and to compare it
    // with the date in the file name. We'll make sure that the
    // date in the first line matches the date in the file name.
    // If not, they have to fix it first. Also, if there are already
    // records for the worship date, ask if the user wants to replace
    // them with information from this document. if not, do not move
    // on.
    string sWorship3LetterMonth = "";
    string sDayOfMonth = "";
    string sDateFromPath = "";
    int y;
    Gl.sWorshipDate = "";
    Gl.x = 1;
    Gl.iOrder = 0;
    // skip to beginning of day of month
    while(!IsNumeric(Gl.WordDoc.Characters[Gl.x].Text))
        Gl.x++;
    // write each digit of day of month in variable
    while(IsNumeric(Gl.WordDoc.Characters[Gl.x].Text))
    {
        sDayOfMonth += Gl.WordDoc.Characters[Gl.x].Text;
        Gl.x++;
    }
    // skip to beginning of month name
    Gl.x++;
    // write each letter of month name in variable
    while(Gl.WordDoc.Characters[Gl.x].Text != " ")
```

```
{  
    sWorship3LetterMonth += Gl.WordDoc.Characters[Gl.x].Text;  
    Gl.x++;  
}  
// skip to beginning of year  
Gl.x++;  
//write month in date variable  
switch(sWorship3LetterMonth)  
{  
    case "Jan":  
        Gl.sWorshipDate = "1";  
        break;  
    case "Feb":  
        Gl.sWorshipDate = "2";  
        break;  
    case "Mar":  
        Gl.sWorshipDate = "3";  
        break;  
    case "Apr":  
        Gl.sWorshipDate = "4";  
        break;  
    case "May":  
        Gl.sWorshipDate = "5";  
        break;  
    case "Jun":  
        Gl.sWorshipDate = "6";  
        break;  
    case "Jul":  
        Gl.sWorshipDate = "7";  
        break;  
    case "Aug":  
        Gl.sWorshipDate = "8";  
        break;  
    case "Sep":  
        Gl.sWorshipDate = "9";  
        break;  
    case "Oct":  
        Gl.sWorshipDate = "10";  
        break;  
    case "Nov":  
        Gl.sWorshipDate = "11";  
        break;  
    case "Dec":  
        Gl.sWorshipDate = "12";  
        break;  
} // switch  
Gl.sWorshipDate += "/" + sDayOfMonth + "/";  
// write year in date variable  
while (IsNumeric(Gl.WordDoc.Characters[Gl.x].Text))  
{  
    Gl.sWorshipDate += Gl.WordDoc.Characters[Gl.x].Text;  
    Gl.x++;
```

```
        }
        // compare date on 1st line of file to date in file name
        //sDateFromPath
        y = G1.sWordPath.Length - 1;
        while (G1.sWordPath[y] != '-')
            y--;
        y -= 2; // pointing to 1st month digit
        if(G1.sWordPath[y] == '0') // skip leading 0 if there
            y++;
        // write month
        while (G1.sWordPath[y] != '-')
        {
            sDateFromPath += G1.sWordPath[y].ToString();
            y++;
        }
        y++;
        sDateFromPath += "/";
        if (G1.sWordPath[y] == '0') // skip leading 0 if there
            y++;
        // write day
        while (G1.sWordPath[y] != '.')
        {
            sDateFromPath += G1.sWordPath[y].ToString();
            y++;
        }
        sDateFromPath += "/20";
        while(G1.sWordPath[y] != '\\')
            y--;
        y++;
        sDateFromPath += G1.sWordPath[y].ToString(); // year 10's digit
        y++;
        sDateFromPath += G1.sWordPath[y].ToString(); // year 1's digit
        // extract file name from file path
        G1.sWordFileName = "";
        y = G1.sWordPath.Length - 1;
        while(G1.sWordPath[y] != '\\')
            y--;
        y++;
        while(y <= G1.sWordPath.Length - 1)
        {
            G1.sWordFileName += G1.sWordPath[y];
            y++;
        }
        SkipToBeginningOfNextLine();
        if(G1.sWorshipDate != sDateFromPath)
        {
            MessageBox.Show("Worship dates on document (" + G1.sWorshipDate +
                ") and file name (" + sDateFromPath + ") are " +
                "different; please fix.", "Different Dates");
            this.Close();
        }
        if(RecordsExistForWorshipDate())
```

```
    if (MessageBox.Show("Records already exist for worship date " +
        G1.sWorshipDate + ". Replace with information from this document?",
        "Existing Records For Date", MessageBoxButtons.YesNo) ==
        DialogResult.Yes)
            NukeRecordsForWorshipDate();
    else
        return false;
    return true;
} // ValidFirstLineDate
} // class
} // namespace
```