

# Programming Logic - Beginning

152-101

## Zipping and Unzipping Files

Notes	Activity
-------	----------

### Quick Links & Text References

- [Overview](#)
- [Zip Programs](#)
- [Using Windows 7](#)
- [jZip](#)
  - [Zipping Using jZip](#)
  - [Adding Files/Folders To a Zip](#)
  - [Unzipping Using jZip](#)
- [7-Zip](#)
  - [Zipping Using 7-Zip](#)
  - [Adding Files/Folders To a 7z File](#)
  - [Unzipping Using 7-Zip](#)

### Overview

- Folders cannot be directly attached to an Email
  - Some Email programs won't allow you attach a folder at all
  - Others, only provide a link when the folder is attached which is generally not usable by the email recipient
- To send entire folders by Email, you must first *zip* them into one, compressed file. This *zipped* file can then be sent as an Email attachment.
  - You can also include any combination of folders and files in a zipped file.
- The Email recipient can then download the attachment to their computer and *unzip* the zipped file to restore the folder (files) to their original configuration on their computer.
  - Note, the recipient must also have a zip program to unzip
- For this class, if you want to send your programs to me via Email, you'll have to zip them first.

## Notes



## Activity

## Zip Programs

- There are numerous zipping programs available for download via the web
  - Windows 7 includes very basic zipping and unzipping features built in.
    - Often, all you need for your classes.
  - WinZip ([www.WinZip.com](http://www.WinZip.com))
    - One of first zipping programs
    - Used by many businesses
    - Free trial, but costs \$29.95
  - WinRAR ([www.win-rar.com](http://www.win-rar.com))
    - One of the first alternatives to WinZip
    - Free trial but then costs \$29
    - Unzipping seems to work forever (no \$)
    - Must be installed on desktop or laptop
    - Provides right-click access to utilities
  - jZip ([www.jzip.com](http://www.jzip.com))
    - Used by MSTC
    - Free
    - Must be installed on desktop or laptop
    - Provides right-click access to utilities
  - 7-Zip ([www.7-zip.org](http://www.7-zip.org))
    - Portable zipping program
    - Does not need to be installed; can be run from a pen drive
    - Free
    - Does not provide right-click access to utilities
- In these notes, I'll go over the basics of the free zipping utilities: jZip and 7-Zip

## Using Windows 7

- Windows 7 comes with basic zipping/unzipping functionality built in to Windows Explorer
  - Zipping is called *compressing* in Windows 7
  - Unzipping is called *extracting* in Windows 7

Notes	Activity
<ul style="list-style-type: none"><li>• Zipping using Windows 7<ul style="list-style-type: none"><li>➤ Select the files and/or folders you wish to zip<ul style="list-style-type: none"><li>– All selected files, folders and subfolders within the folders will be compressed into one file.</li></ul></li><li>➤ Right-click any selected file/folder</li><li>➤ Select the Send To item in the popup menu</li><li>➤ Select <b>Compressed (zipped) Folder</b><ul style="list-style-type: none"><li>– This is kind of confusing because the end result is actually a file, not a folder.</li></ul></li><li>➤ Windows 7 will create the zipped file and place it in the current folder (where you right-clicked) with a <b>zip</b> extension and the icon shown to the right.<ul style="list-style-type: none"><li>– Move the file to an appropriate location or attach it to an Email</li><li>– Delete the zipped file when you no longer need it--you can always recreate it later.</li></ul></li></ul></li><li>• Unzipping using Windows 7<ul style="list-style-type: none"><li>➤ Windows 7 calls unzipping “extracting”</li><li>➤ Place the (downloaded) zip file in an appropriate place on your computer—where you want the unzipped files placed.<ul style="list-style-type: none"><li>– Alternatively, you can simply extract on the Desktop and then move the unzipped files to an appropriate location.</li></ul></li><li>➤ Right-click the zipped file</li><li>➤ Choose <b>Extract All...</b> from the popup menu</li><li>➤ In the dialog box that appears, use the Browse button to designate where the unzipped (extracted) folders/files should be placed<ul style="list-style-type: none"><li>– Often Windows 7 will simply add a folder name to the end of the current folder (where the zipped file is located). Maybe all you have to do is delete this.</li><li>– Since you just right-clicked a zipped file, you can probably uncheck the <b>Show extracted files when complete</b> option (this will open a new window). The extracted files should appear in the same window as the zipped file.<ul style="list-style-type: none"><li>▪ UNLESS you extract to a completely different location.</li></ul></li></ul></li><li>➤ Click the Extract button.</li><li>➤ If the unzipping (extraction) was successful, you can probably delete the zipped file.</li></ul></li></ul>	 

Notes	Activity
-------	----------

## jZip

- Available for your use from [www.jzip.com](http://www.jzip.com)
- Free
- Must be installed on laptop or desktop
- Provides convenient, right-click access to zip utilities
- Zipping using jZip
  - Zipping a single folder
    - This is the technique you'll most likely use to zip your Visual Basic solution folders
      - Remember to zip the entire solution folder, not the stuff inside
    - Locate your solution folder
    - Right-click the solution folder
    - Choose jZip from the popup menu
    - Choose the 2<sup>nd</sup> option on the jZip submenu
      - Should say something like *Add to yourprojectname.zip*
    - This will automatically create a zip file with the same name as your solution folder in the same folder as your solution folder
    - Now, simply attach this file to an Email.
    - After you've Emailed the zip file, you should probably delete it unless you feel you might need it again later.
      - Your original solution folder is unaffected when you delete the zip file.
    - Note, there is also an *Add to zip and Email* option in the jZip popup menu.
      - This option only works if your computer has an Email program installed (not Gmail or Hotmail or other web-based Email)
      - This option creates the zip file in a temporary location, opens a new Email message and attaches the zip file to the Email.
      - When you send the Email, the zip file is automatically deleted.

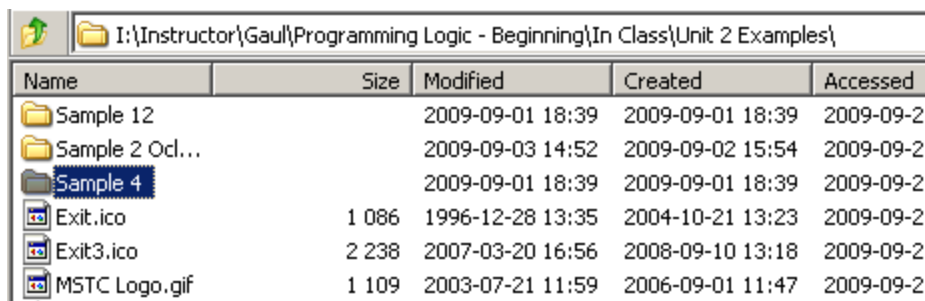
Notes	Activity
<ul style="list-style-type: none"><li>➤ Adding files/folders to an existing zip file<ul style="list-style-type: none"><li>– If you create a zip file and later decide to add more files to the zip, you don't have to start over.</li><li>– Select the files/folders you want to add to the zip file</li><li>– Right-click any of the selected files</li><li>– From the jZip popup menu, choose <i>Add to Zip file...</i></li><li>– A new dialog box will appear that allows you designate the zip file that should be added to.<ul style="list-style-type: none"><li>▪ You can type the name of the file</li><li>▪ It's probably easier to click the Open button and locate the zip file that way.</li></ul></li><li>– Click the Add button</li><li>– jZip will then show you a window displaying the current contents of the zip file you selected. The files/folders you added should show in that window.</li><li>– Close the window</li></ul></li><li>• Unzipping using jZip<ul style="list-style-type: none"><li>➤ My favorite technique is to first move (copy) the zip file you wish to unzip to the appropriate location—where you want the unzipped files to be stored.</li><li>➤ Right-click the zip file</li><li>➤ Choose jZip ▶ Extract Here</li><li>➤ jZip will unzip the zip file contents, placing the unzipped files in the same location as the zipped file.</li><li>➤ After you've verified the unzipping was successful, you can probably delete the zip file.</li></ul></li></ul>	

## Notes

## Activity







**7-Zip**



- 7-Zip is a *portable* application, meaning you don't have to install it on a computer to run it.
- Simply extract the downloaded 7-Zip executable file to your pen drive or removable hard drive.
- To use the program, double-click the 7-Zip executable file
  - Note, I have copied the extracted 7-Zip program files to the Programming Logic folder on the I: drive.
- Because 7-Zip is not installed, the handy, right-click menu utilities for zipping and unzipping described for jZip above are NOT available for 7-Zip
  - You'll have to balance the portability of 7-Zip versus the convenience of right-click utilities
- Zipping Folders Using 7-Zip
  - Zipping a single folder
    - This is the technique you'll most likely use to zip your Visual Basic solution folders
      - Remember to zip the entire solution folder, not the stuff inside
  - Start the 7-Zip program (double-click the executable)
  - Use the 7-Zip folder navigation tools to locate your VB solution folder
    - Sample 4 in the example below



Name	Size	Modified	Created	Accessed
Sample 12		2009-09-01 18:39	2009-09-01 18:39	2009-09-2
Sample 2 Ocl...		2009-09-03 14:52	2009-09-02 15:54	2009-09-2
<b>Sample 4</b>		2009-09-01 18:39	2009-09-01 18:39	2009-09-2
Exit.ico	1 086	1996-12-28 13:35	2004-10-21 13:23	2009-09-2
Exit3.ico	2 238	2007-03-20 16:56	2008-09-10 13:18	2009-09-2
MSTC Logo.gif	1 109	2003-07-21 11:59	2006-09-01 11:47	2009-09-2

Notes	Activity
-------	----------

- Make sure your solution folder is selected (see Sample 4 above)
  - 
- Click the  button on the 7-Zip toolbar
- A new dialog box will appear that allows you designate the name of the zip file and where you want it stored.
  - The name should already be the same as your project folder. Change it if you like.
  - By default, the zip file will be created in the same location as your solution folder. If you want to change the location, click the button with the three dots  and navigate to the correct location.
  - Click the OK button and your zip file will be created.
    - 7-Zip uses the 7z extension. Most other zipping programs (jZip, WinRAR, etc) recognize this extension and can extract the files.
- Zipping multiple folders and files into one zip file
  - If you create a zip (7z) file and later decide to add more files to the zip, you don't have to start over.
  - Using 7-zip, navigate and locate the files/folders you wish to add to the 7z file and select them.
  - 
  - Click the  button.
  - Click the  button and locate the 7z file you want the files added to.
  - Click OK
  - 7-Zip adds the new files to the 7z file; it does remove what was originally there.
  - If the files you added to 7z file already exist in the 7z file, the old files are replaced with the new files.

Notes	Activity
<ul style="list-style-type: none"><li>• Unzipping using 7-Zip<ul style="list-style-type: none"><li>➤ Note, 7-Zip also has the ability to unzip files with the .zip and .iso extension (instead of .7z) extension</li><li>➤ To unzip a file, once again, first start 7-Zip</li><li>➤ Navigate to the location of the zip file<ul style="list-style-type: none"><li>– Note: the navigation screen of 7-Zip does not include a Desktop shortcut.</li><li>– In Windows Vista and Windows 7, the Desktop folder is located under C:\Users\yourUserName\Desktop</li><li>– In Windows XP, the Desktop folder is located in. C:\Documents and Settings\username\Desktop</li></ul></li><li>➤ Select the zip file</li><li>➤ Click the  button</li><li>➤ A new dialog box will appear that allows you to control certain aspects of the unzipping (technically, <i>extracting</i>) process<ul style="list-style-type: none"><li>– Normally, I unzip to the same folder where my 7z file is. This is not a requirement. If you want to change where the extracted files go, click the  button and navigate to the appropriate folder.</li><li>– 7-Zip also offers to create a NEW folder with the same name as the 7z file. <u>This new folder is unnecessary</u> because we zipped a folder in the first place. Remove the extra folder name from the path before unzipping.</li><li>– Click the OK to button extract (unzip) the files.</li></ul></li><li>➤ Once you've verified the files/folders unzipped correctly, you can probably delete the 7z file.</li></ul></li></ul>	