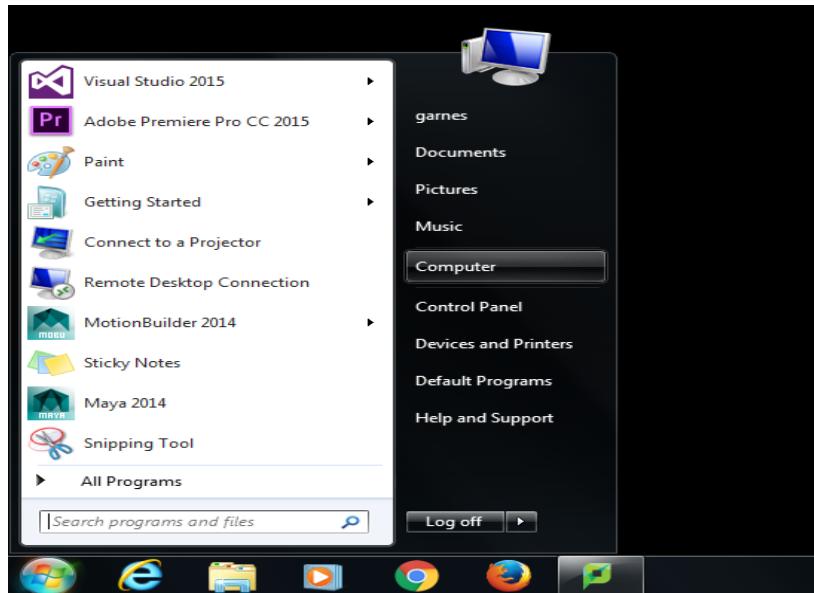


Before attempting to run homework 3 make sure you have the code saved and have the butterfly image saved in the same place as the homework 3 code.

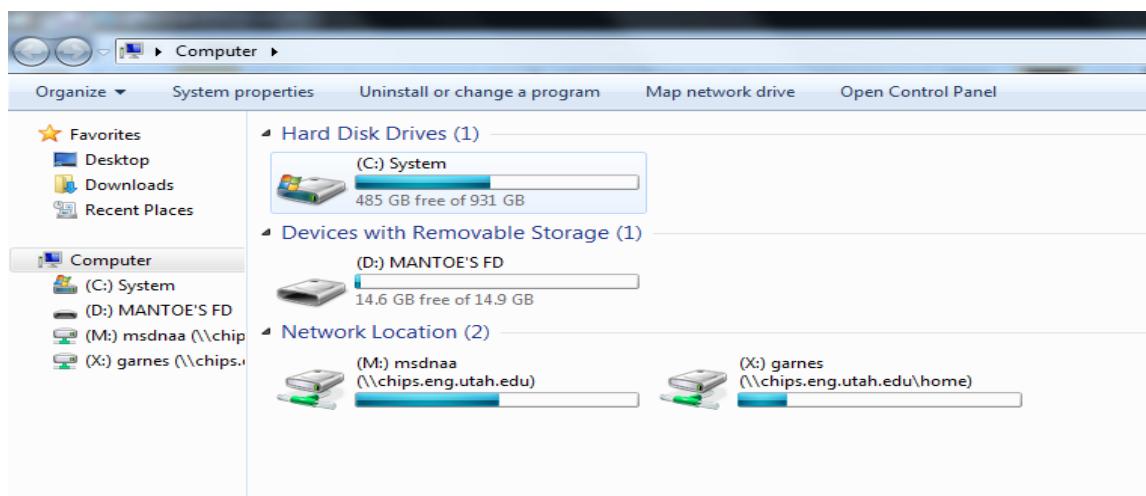
How to Run Homework 3 in the Cade Lab

From the main desktop click on the start button and click on the



“computer” button on the right hand side.

Once that opens double click on “(C:) System”



The screenshot shows a Windows File Explorer window with the following details:

Path: Computer > (C:) System

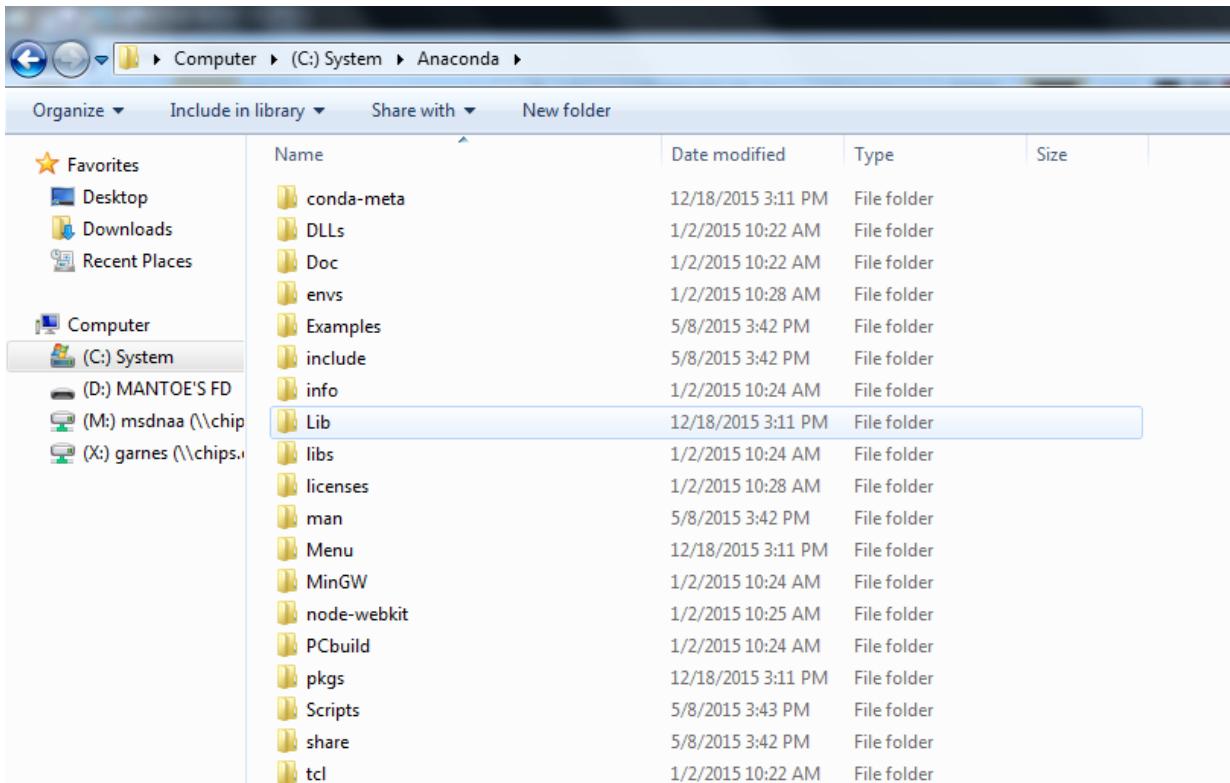
Toolbar: Organize, Share with, New folder

Left pane (Favorites/Computer): Desktop, Downloads, Recent Places, Computer, (C:) System (selected), (D:) MANTOE'S FD, (M:) msdnnaa (\chip), (X:) garnes (\chips.)

Right pane (File List):

Name	Date modified	Type	Size
.Xilinx	12/5/2013 11:31 AM	File folder	
a89e910a3492f74c7b	12/17/2015 12:17 ...	File folder	
Anaconda	12/18/2015 3:11 PM	File folder	
Android	12/18/2015 11:40 ...	File folder	
Cache	1/12/2016 10:08 AM	File folder	
Cadence	5/2/2014 3:17 PM	File folder	
crystalreportviewers12	12/9/2013 3:57 PM	File folder	
CS3500	2/24/2016 12:08 PM	File folder	
cygwin	11/25/2013 5:08 PM	File folder	
Data	12/22/2015 11:35 ...	File folder	
Ensoft	5/8/2015 7:17 PM	File folder	
flexlm	12/18/2013 1:22 PM	File folder	
HeroesData	12/22/2015 11:34 ...	File folder	
Imaging	7/28/2015 5:41 PM	File folder	
Intel	1/5/2016 6:10 PM	File folder	
MATLAB	5/11/2015 1:03 PM	File folder	

Once that opens double click on the “**Anaconda**” folder

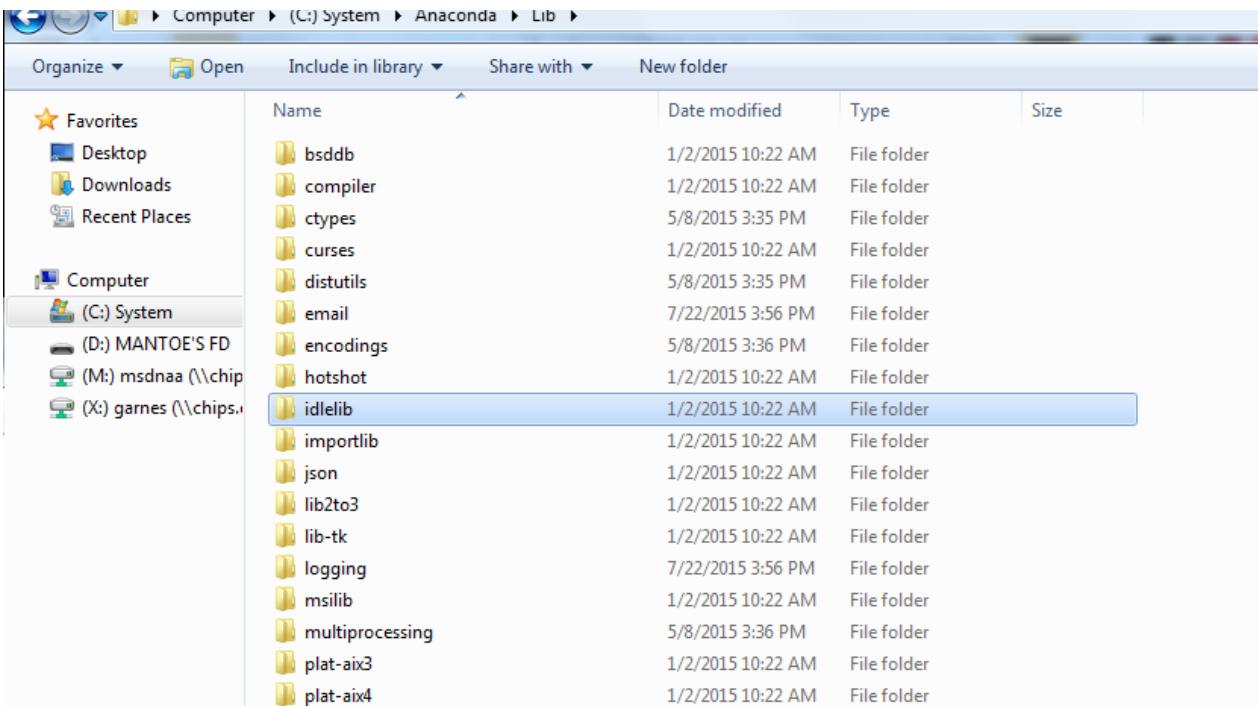


Organize ▾ Include in library ▾ Share with ▾ New folder

	Name	Date modified	Type	Size
★ Favorites				
Desktop	conda-meta	12/18/2015 3:11 PM	File folder	
Downloads	DLLs	1/2/2015 10:22 AM	File folder	
Recent Places	Doc	1/2/2015 10:22 AM	File folder	
Computer	envs	1/2/2015 10:28 AM	File folder	
(C:) System	Examples	5/8/2015 3:42 PM	File folder	
(D:) MANTOE'S FD	include	5/8/2015 3:42 PM	File folder	
(M:) msdnna (\chip	info	1/2/2015 10:24 AM	File folder	
(X:) garnes (\chips.	Lib	12/18/2015 3:11 PM	File folder	
	libs	1/2/2015 10:24 AM	File folder	
	licenses	1/2/2015 10:28 AM	File folder	
	man	5/8/2015 3:42 PM	File folder	
	Menu	12/18/2015 3:11 PM	File folder	
	MinGW	1/2/2015 10:24 AM	File folder	
	node-webkit	1/2/2015 10:25 AM	File folder	
	PCbuild	1/2/2015 10:24 AM	File folder	
	pkgs	12/18/2015 3:11 PM	File folder	
	Scripts	5/8/2015 3:43 PM	File folder	
	share	5/8/2015 3:42 PM	File folder	
	tcl	1/2/2015 10:22 AM	File folder	

Once that opens double click on the “Lib” folder

Once that opens double click on the “idlelib” folder



Organize ▾ Open ▾ Include in library ▾ Share with ▾ New folder

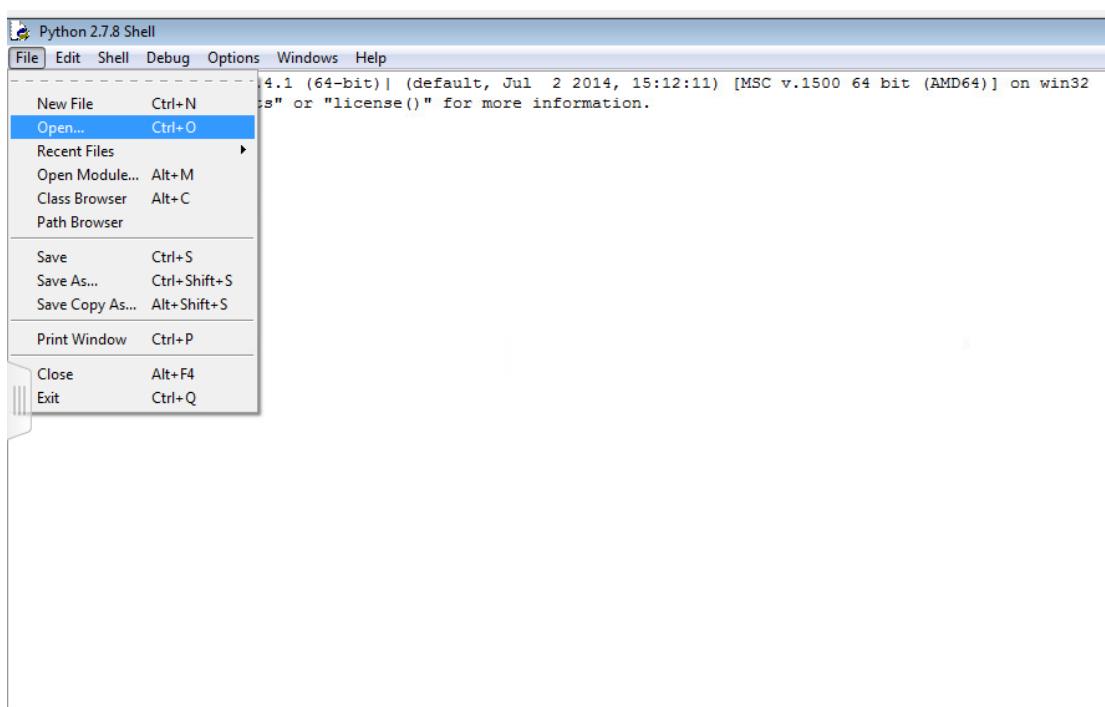
	Name	Date modified	Type	Size
★ Favorites				
Desktop	bsddb	1/2/2015 10:22 AM	File folder	
Downloads	compiler	1/2/2015 10:22 AM	File folder	
Recent Places	ctypes	5/8/2015 3:35 PM	File folder	
Computer	curses	1/2/2015 10:22 AM	File folder	
(C:) System	distutils	5/8/2015 3:35 PM	File folder	
(D:) MANTOE'S FD	email	7/22/2015 3:56 PM	File folder	
(M:) msdnna (\chip	encodings	5/8/2015 3:36 PM	File folder	
(X:) garnes (\chips.	hotshot	1/2/2015 10:22 AM	File folder	
	idlelib	1/2/2015 10:22 AM	File folder	
	importlib	1/2/2015 10:22 AM	File folder	
	json	1/2/2015 10:22 AM	File folder	
	lib2to3	1/2/2015 10:22 AM	File folder	
	lib-tk	1/2/2015 10:22 AM	File folder	
	logging	7/22/2015 3:56 PM	File folder	
	msilib	1/2/2015 10:22 AM	File folder	
	multiprocessing	5/8/2015 3:36 PM	File folder	
	plat-aix3	1/2/2015 10:22 AM	File folder	
	plat-aix4	1/2/2015 10:22 AM	File folder	

In this folder double click on the program called “idle” to open it, and make

	Recent Places			
	Computer			
	(C:) System			
	(D:) MANTOE'S FD			
	(M:) msdnna (\chip)			
	(X:) gernes (\chips.)			
	idleList	7/2/2014 3:12 PM	Compiled Python ...	4 KB
	FormatParagraph	6/29/2014 9:05 PM	Python File	8 KB
	FormatParagraph	7/2/2014 3:12 PM	Compiled Python ...	7 KB
	GrepDialog	6/29/2014 9:05 PM	Python File	5 KB
	GrepDialog	7/2/2014 3:12 PM	Compiled Python ...	7 KB
	help	6/29/2014 9:05 PM	Text Document	12 KB
	HISTORY	6/29/2014 9:05 PM	Text Document	11 KB
	HyperParser	6/29/2014 9:05 PM	Python File	11 KB
	HyperParser	7/2/2014 3:12 PM	Compiled Python ...	7 KB
	idle	6/29/2014 9:05 PM	Windows Batch File	1 KB
	idle	6/29/2014 9:05 PM	Python File	1 KB
	idle	7/2/2014 3:12 PM	Compiled Python ...	1 KB
	idle	6/29/2014 9:05 PM	Python File (no co...)	1 KB
	IdleHistory	6/29/2014 9:05 PM	Python File	4 KB
	IdleHistory	7/2/2014 3:12 PM	Compiled Python ...	4 KB
	idlelever	6/29/2014 9:05 PM	Python File	1 KB
	idlelever	7/2/2014 3:12 PM	Compiled Python ...	1 KB
	IOBinding	6/29/2014 9:05 PM	Python File	21 KB
	IOBinding	7/2/2014 3:12 PM	Compiled Python ...	17 KB
	keybindingDialog	6/29/2014 9:05 PM	Python File	13 KB

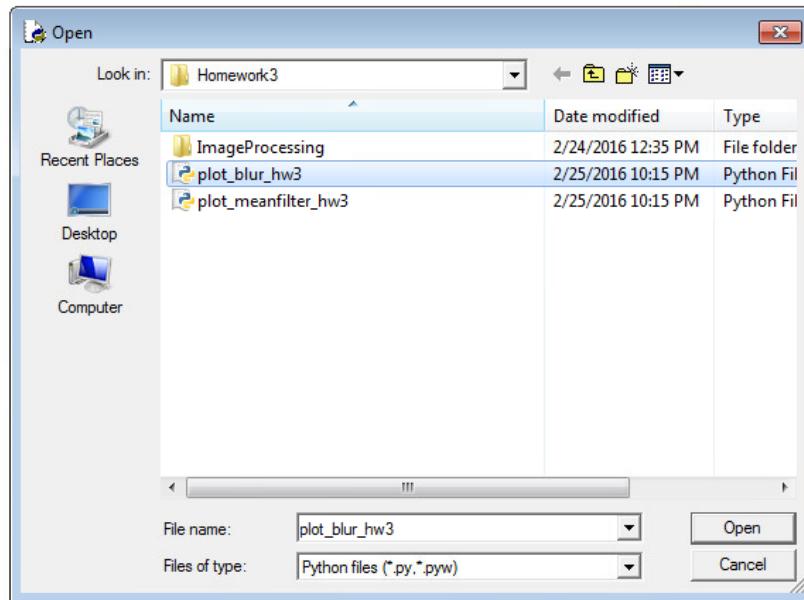
sure the file type is a “Windows Batch File”

A white window called a “Python 2.7.8 Shell” should open up. Use this



shell to open up homework 3.

Navigate to the file location of the homework 3 assignment and double click on it to open it.



The code for the file will open up. To run the code click on the run button

```
Python 2.7.8: plot_blur_hw3.py - X:\Documents\cs_1060\Homework3\plot_blur_hw3.py
File Edit Format Run Options Windows Help
"""
Blurring of images
=====
An example showing how to blur an image.
Code modified from:
http://www.scipy-lectures.org/advanced/image_processing/
"""

import scipy.misc as misc
from scipy import ndimage
import matplotlib.pyplot as plt

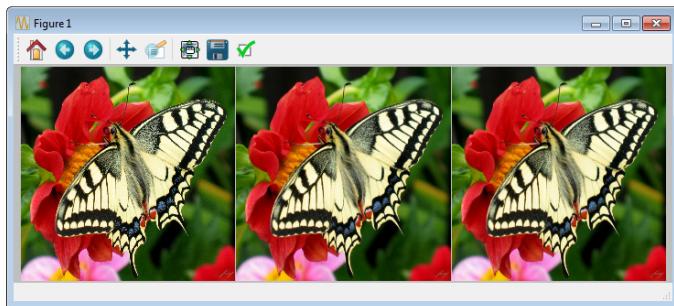
# read image from a jpg file
face = misc.imread('butterfly.jpg')

# Try different sigma parameters, the larger, the more blurry it becomes
# Change my_sigma1 and my_sigma2 such that the middle and the right images are progressively more blurry than the left image
my_sigma1 = 1
my_sigma2 = 1
blurred_face = ndimage.gaussian_filter(face, sigma=(my_sigma1, my_sigma1, 0))
very_blurred = ndimage.gaussian_filter(face, sigma=(my_sigma2, my_sigma2, 0))

plt.figure(figsize=(9, 3))

plt.subplot(131)
plt.imshow(face, cmap=plt.cm.gray)
plt.axis('off')
plt.subplot(132)
plt.imshow(blurred_face, cmap=plt.cm.gray)
plt.axis('off')
plt.subplot(133)
plt.imshow(very_blurred, cmap=plt.cm.gray)
```

at the top of the program and then click “**Run Module**”



The code should run and will open up a program that displays the images