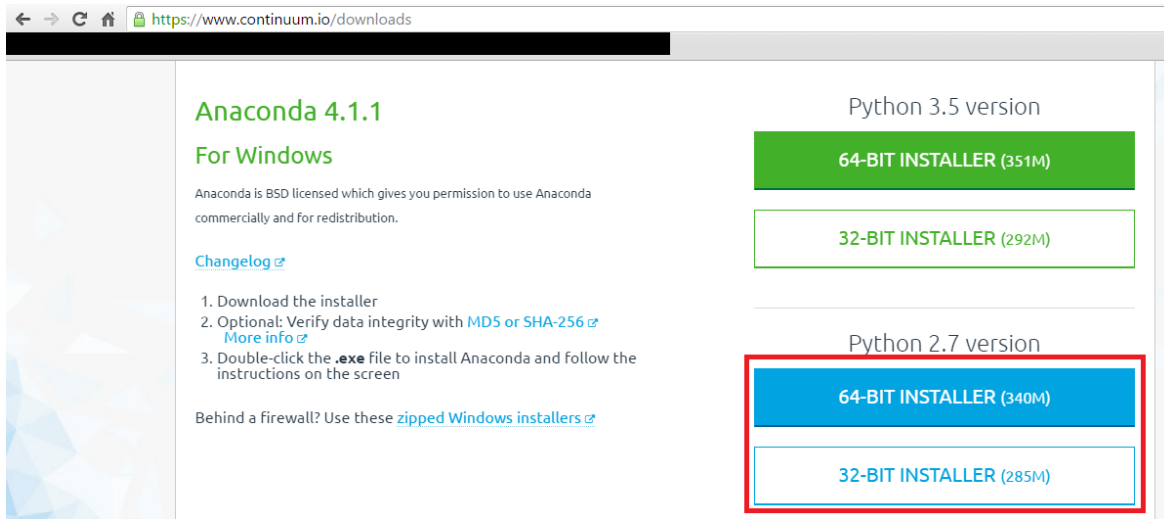
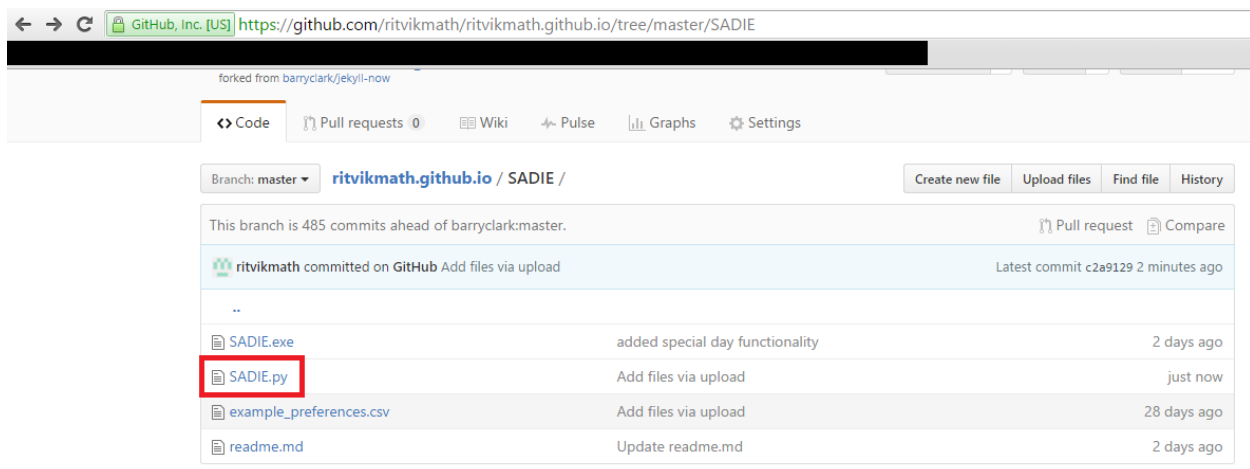


Running SADIE from Source

1. You will need to download the Python distribution called **Anaconda**. Navigate to <https://www.continuum.io/downloads> and download the Python 2.7 version. During the installation leave the default settings as they are.



2. Navigate to <https://github.com/ritvikmath/ritvikmath.github.io/tree/master/SADIE> and:
 - a) click on the file **SADIE.py**.
 - b) click on the 'Raw' button on the upper right of the page
 - c) right click the resulting source code and 'Save As' **SADIE.py** (not SADIE.py.txt) with 'Save As Type' set to 'All Files'. Put **SADIE.py** in your **Anaconda2** directory.



3. Make sure **SADIE.py** and your duty preferences csv file are in the **Anaconda2** directory.

PC > OS (C:) > Users > [redacted] > Anaconda2 >			
Name	Date modified	Type	Size
Library	9/4/2016 1:54 PM	File folder	
libs	9/4/2016 1:58 PM	File folder	
man	9/4/2016 2:03 PM	File folder	
Menu	9/4/2016 2:03 PM	File folder	
pkgs	9/4/2016 2:03 PM	File folder	
Scripts	9/4/2016 2:03 PM	File folder	
share	9/4/2016 1:58 PM	File folder	
sip	9/4/2016 1:59 PM	File folder	
tcl	9/4/2016 1:54 PM	File folder	
Tools	9/4/2016 1:54 PM	File folder	
.nonadmin	9/4/2016 2:03 PM	NONADMIN File	0 KB
cwp.py	5/26/2016 9:09 AM	Python File	1 KB
example_preferences.csv	9/3/2016 9:59 AM	Microsoft Excel C...	4 KB
msvc90.dll	7/29/2008 2:51 AM	Application extens...	240 KB
msvc90.dll	7/29/2008 4:23 AM	Application extens...	837 KB
msvc90.dll	7/29/2008 4:23 AM	Application extens...	612 KB
python.exe	6/29/2016 10:07 AM	Application	27 KB
python.pdb	6/29/2016 10:07 AM	PDB File	179 KB
python27.dll	6/29/2016 10:07 AM	Application extens...	2,954 KB
python27.pdb	6/29/2016 10:07 AM	PDB File	4,963 KB
pythoncomloader27.dll	3/3/2016 11:47 AM	Application extens...	9 KB
pythonw.exe	6/29/2016 10:07 AM	Application	27 KB
pythonw.pdb	6/29/2016 10:07 AM	PDB File	187 KB
SADIE.py	9/4/2016 1:16 PM	Python File	13 KB
Uninstall-Anaconda.exe	9/4/2016 2:03 PM	Application	683 KB

- Open your Anaconda prompt and make sure to navigate into the **Anaconda2** directory. (This just means to make sure the end of the path says Anaconda2. If it doesn't, use the change directory (**cd**) command until it does. For example use the command:
cd Anaconda2)

```

Anaconda Prompt
(C:\Users\[redacted]\Anaconda2) C:\Users\[redacted]>cd Anaconda2
(C:\Users\[redacted]\Anaconda2) C:\Users\[redacted]\Anaconda2>

```

- You will need to install a library called pulp. Use the command: **pip install pulp**

```

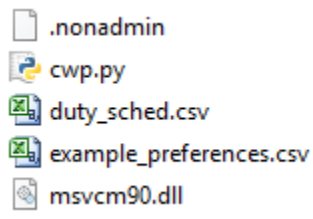
(C:\Users\[redacted]\Anaconda2) C:\Users\[redacted]\Anaconda2>pip install pulp
Collecting pulp
Collecting pyparsing<=1.9.9 (from pulp)
Installing collected packages: pyparsing, pulp
Found existing installation: pyparsing 2.1.4
Uninstalling pyparsing-2.1.4:
Successfully uninstalled pyparsing-2.1.4
Successfully installed pulp-1.6.1 pyparsing-1.5.7

```

- Go ahead and run SADIE using the command: **python SADIE.py**
You'll then be asked to enter all of your inputs.

```
(C:\Users\[redacted]\Anaconda2) C:\Users\[redacted]\Anaconda2>python SADIE.py
Start Date for Scheduling (eg. Sun 15 / Fri 10): Sun 15
Number of Days to Schedule: 27
Staff Size: 24
ON Shifts per day: 3
IN Shifts per day: 3
Name of Shift Preference file (eg. example_preferences.csv): example_preferences.csv
-----
Finding Lower Thresholds ...
-----
Boosting time between ON shifts ...
-----
Boosting time between IN shifts ...
```

- Once SADIE finishes, you will have a file called `duty_sched.csv` in your Anaconda2 directory.



- In `duty_sched.csv` you will find your generated schedule.

	A	B	C	D	E	F	G
1		ON 1	ON 2	ON 3	IN 1	IN 2	IN 3
2	Sun 15	Jerry	Elsa	Bruce	Zeus	Daenerys	Wilt
3	Mon 16	Sulu	Mickey	Napoleon	Frodo	Tom	Vader
4	Tue 17	Xavier	Grinch	Kenobi	Hermione	Yoda	Clark
5	Wed 18	Othello	Patrick	Frodo	Mickey	Elsa	Bruce
6	Thu 19	Ross	Lumiere	Tom	Jerry	Grinch	Sulu
7	Fri 20	Ash	Clark	Vader	Kenobi	Napoleon	Xavier
8	Sat 21	Daenerys	Zeus	Wilt	Ross	Indiana	Othello
9	Sun 22	Hermione	Jerry	Elsa	Vader	Patrick	Frodo
10	Mon 23	Yoda	Bruce	Mickey	Wilt	Daenerys	Tom
11	Tue 24	Indiana	Napoleon	Grinch	Elsa	Clark	Jerry
12	Wed 25	Frodo	Kenobi	Xavier	Yoda	Lumiere	Bruce
13	Thu 26	Othello	Patrick	Sulu	Grinch	Ash	Zeus
14	Fri 27	Clark	Tom	Lumiere	Hermione	Ross	Kenobi
15	Sat 28	Zeus	Vader	Ash	Indiana	Wilt	Othello