

Project 09 -- Louis Gonzalez

TA Help: Dr. Ward and Darren via Piazza

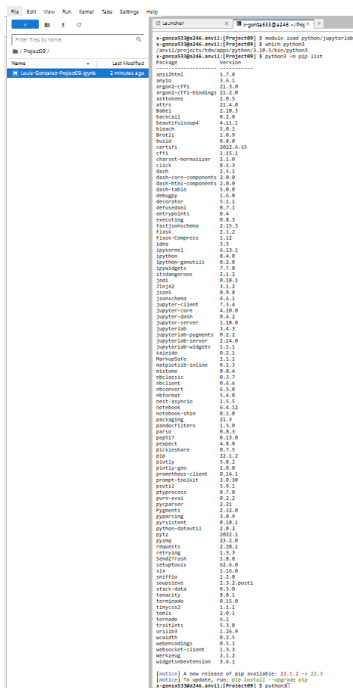
- Help with getting the get_rating function to work and building a package

Question 1

Activating the base image

```
In [1]: from IPython import display
display.Image("/home/x-gonza533/Project09/Question_1_1.PNG")
```

Out[1]:



anaconda	1.10.0
argparse	1.1.0
argparse-pretty	1.1.0
argparse-pretty-bindings	1.1.0
asttokens	2.0.5
attrs	22.2.0
babel	2.10.3
backcall	0.2.0
base64	1.0.1
base64-compat	1.0.1
base64url	1.0.1
base64url-compat	1.0.1
base64url-compat2	1.0.1
base64url-compat3	1.0.1
base64url-compat4	1.0.1
base64url-compat5	1.0.1
base64url-compat6	1.0.1
base64url-compat7	1.0.1
base64url-compat8	1.0.1
base64url-compat9	1.0.1
base64url-compat10	1.0.1
base64url-compat11	1.0.1
base64url-compat12	1.0.1
base64url-compat13	1.0.1
base64url-compat14	1.0.1
base64url-compat15	1.0.1
base64url-compat16	1.0.1
base64url-compat17	1.0.1
base64url-compat18	1.0.1
base64url-compat19	1.0.1
base64url-compat20	1.0.1
base64url-compat21	1.0.1
base64url-compat22	1.0.1
base64url-compat23	1.0.1
base64url-compat24	1.0.1
base64url-compat25	1.0.1
base64url-compat26	1.0.1
base64url-compat27	1.0.1
base64url-compat28	1.0.1
base64url-compat29	1.0.1
base64url-compat30	1.0.1
base64url-compat31	1.0.1
base64url-compat32	1.0.1
base64url-compat33	1.0.1
base64url-compat34	1.0.1
base64url-compat35	1.0.1
base64url-compat36	1.0.1
base64url-compat37	1.0.1
base64url-compat38	1.0.1
base64url-compat39	1.0.1
base64url-compat40	1.0.1
base64url-compat41	1.0.1
base64url-compat42	1.0.1
base64url-compat43	1.0.1
base64url-compat44	1.0.1
base64url-compat45	1.0.1
base64url-compat46	1.0.1
base64url-compat47	1.0.1
base64url-compat48	1.0.1
base64url-compat49	1.0.1
base64url-compat50	1.0.1
base64url-compat51	1.0.1
base64url-compat52	1.0.1
base64url-compat53	1.0.1
base64url-compat54	1.0.1
base64url-compat55	1.0.1
base64url-compat56	1.0.1
base64url-compat57	1.0.1
base64url-compat58	1.0.1
base64url-compat59	1.0.1
base64url-compat60	1.0.1
base64url-compat61	1.0.1
base64url-compat62	1.0.1
base64url-compat63	1.0.1
base64url-compat64	1.0.1
base64url-compat65	1.0.1
base64url-compat66	1.0.1
base64url-compat67	1.0.1
base64url-compat68	1.0.1
base64url-compat69	1.0.1
base64url-compat70	1.0.1
base64url-compat71	1.0.1
base64url-compat72	1.0.1
base64url-compat73	1.0.1
base64url-compat74	1.0.1
base64url-compat75	1.0.1
base64url-compat76	1.0.1
base64url-compat77	1.0.1
base64url-compat78	1.0.1
base64url-compat79	1.0.1
base64url-compat80	1.0.1
base64url-compat81	1.0.1
base64url-compat82	1.0.1
base64url-compat83	1.0.1
base64url-compat84	1.0.1
base64url-compat85	1.0.1
base64url-compat86	1.0.1
base64url-compat87	1.0.1
base64url-compat88	1.0.1
base64url-compat89	1.0.1
base64url-compat90	1.0.1
base64url-compat91	1.0.1
base64url-compat92	1.0.1
base64url-compat93	1.0.1
base64url-compat94	1.0.1
base64url-compat95	1.0.1
base64url-compat96	1.0.1
base64url-compat97	1.0.1
base64url-compat98	1.0.1
base64url-compat99	1.0.1
base64url-compat100	1.0.1

Creating a virtual environment

```
In [2]: display.Image("/home/x-gonza533/Project09/Question_1_2.PNG")
```

```
Out[2]:
x-gonza533@a246:~$ cat /dev/null > .anvilrc
x-gonza533@a246:~$ source $HOME/p9q1/bin/activate
(p9q1) x-gonza533@a246:~$ deactivate
x-gonza533@a246:~$ which python3
/anvil/projects/tdm/apps/python/3.10.5/bin/python3
x-gonza533@a246:~$
```

Activating and deactivating a virtual environment

```
In [3]: display.Image("/home/x-gonza533/Project09/Question_1_3.PNG")

Out[3]:
x-gonza533@a246.anvil:[Project09] $ source $HOME/p9q1/bin/activate
(p9q1) x-gonza533@a246.anvil:[Project09] $ deactivate
x-gonza533@a246.anvil:[Project09] $ which python3
/anvil/projects/tdm/apps/python/3.10.5/bin/python3
x-gonza533@a246.anvil:[Project09] $
```

Building a new virtual environment and deleting a virtual environment

```
In [4]: display.Image("/home/x-gonza533/Project09/Question_1_4.PNG")
```

```

Out[4]: (p9q1) x-gonza533@a246.anvil:[Project09] $ python3 -m pip freeze > $HOME/requirements.txt
(p9q1) x-gonza533@a246.anvil:[Project09] $ deactivate
x-gonza533@a246.anvil:[Project09] $ python3 -m venv $HOME/RandoVenv
x-gonza533@a246.anvil:[Project09] $ source $HOME/RandoVenv/bin/activate
(RandoVenv) x-gonza533@a246.anvil:[Project09] $ python3 -m pip install -r $HOME/requirements.txt
Collecting certifi==2022.9.24
  Using cached certifi-2022.9.24-py3-none-any.whl (161 kB)
Collecting charset-normalizer==2.1.1
  Using cached charset_normalizer-2.1.1-py3-none-any.whl (39 kB)
Collecting idna==3.4
  Using cached idna-3.4-py3-none-any.whl (61 kB)
Collecting requests==2.28.1
  Using cached requests-2.28.1-py3-none-any.whl (62 kB)
Collecting urllib3==1.26.12
  Using cached urllib3-1.26.12-py2.py3-none-any.whl (140 kB)
Installing collected packages: urllib3, idna, charset-normalizer, certifi, requests
Successfully installed certifi-2022.9.24 charset-normalizer-2.1.1 idna-3.4 requests-2.28.1 urllib3-1.26.12
WARNING: You are using pip version 22.0.4; however, version 22.3 is available.
You should consider upgrading via the '/home/x-gonza533/RandoVenv/bin/python3 -m pip install --upgrade pip' command.
(RandoVenv) x-gonza533@a246.anvil:[Project09] $ python3 -m pip list
Package            Version
-----
certifi             2022.9.24
charset-normalizer  2.1.1
idna                3.4
pip                22.0.4
requests           2.28.1
setuptools         58.1.0
urllib3            1.26.12
WARNING: You are using pip version 22.0.4; however, version 22.3 is available.
You should consider upgrading via the '/home/x-gonza533/RandoVenv/bin/python3 -m pip install --upgrade pip' command.
(RandoVenv) x-gonza533@a246.anvil:[Project09] $ python3 -m pip freeze
certifi==2022.9.24
charset-normalizer==2.1.1
idna==3.4
requests==2.28.1
urllib3==1.26.12
(RandoVenv) x-gonza533@a246.anvil:[Project09] $ rm -rf $HOME/p9q1
(RandoVenv) x-gonza533@a246.anvil:[Project09] $

```

Question 2

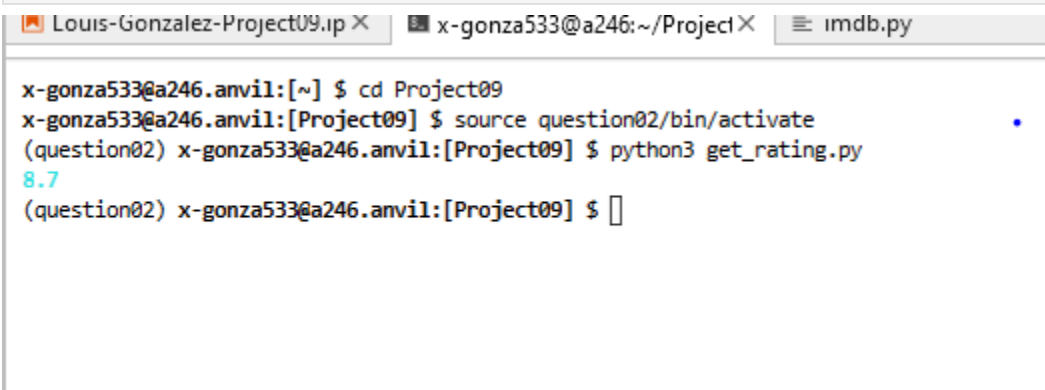
Creating virtual environment question02 and installing the necessary packages to run get_rating

In []:

```
**Running get_rating function
```

In [5]: `display.Image("/home/x-gonza533/Project09/Question_2_2.PNG")`

Out[5]:



The screenshot shows a terminal window with the following content:

```

x-gonza533@a246.anvil:[~] $ cd Project09
x-gonza533@a246.anvil:[Project09] $ source question02/bin/activate
(question02) x-gonza533@a246.anvil:[Project09] $ python3 get_rating.py
8.7
(question02) x-gonza533@a246.anvil:[Project09] $

```

Question 3

```
**Running get_rating function successfully
```

I did not realize we needed the other parts where it fails but it did fail in each case in which it was stating the function would fail.

```
In [6]: display.Image("/home/x-gonza533/Project09/Question_3_1.PNG")
```

```
Out[6]: (p9q3) x-gonza533@a246.anvil:[tdm-louis] $ python3
Python 3.6.8 (default, Nov 2 2021, 15:48:16)
[GCC 8.4.1 20200928 (Red Hat 8.4.1-1)] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import imdb
Hi! You must have imported me!
>>> print(imdb.__version__)
0.0.1
>>> imdb.get_rating("tt4236770")
8.7
>>> imdb.imdb.get_rating("tt4236770")
8.7
>>> from imdb import get_rating
      File "<stdin>", line 1
        from imdb import get_rating
            ^
SyntaxError: invalid syntax
>>> from imdb import get_rating
>>> get_rating("tt4236770")
8.7
>>> █
```

Question 4

****Creating and activating a new virtual environment, and building the package**

```
In [7]: display.Image("/home/x-gonza533/Project09/Question_4_1.PNG")
```

```

Out[7]: x-gonza533@a249.anvil:[tdm-louis] $ source $HOME/p9q4/bin/activate
(p9q4) x-gonza533@a249.anvil:[tdm-louis] $ python3 -m build $HOME/tdm-louis
* Creating venv isolated environment...
* Installing packages in isolated environment... (setuptools>=61.0.0, wheel)
* Getting dependencies for sdist...
running egg_info
creating p9q4.egg-info
writing p9q4.egg-info/PKG-INFO
writing dependency_links to p9q4.egg-info/dependency_links.txt
writing requirements to p9q4.egg-info/requirements.txt
writing top-level names to p9q4.egg-info/top_level.txt
writing manifest file 'p9q4.egg-info/SOURCES.txt'
reading manifest file 'p9q4.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'p9q4.egg-info/SOURCES.txt'
* Building sdist...
running sdist
running egg_info
writing p9q4.egg-info/PKG-INFO
writing dependency_links to p9q4.egg-info/dependency_links.txt
writing requirements to p9q4.egg-info/requirements.txt
writing top-level names to p9q4.egg-info/top_level.txt
reading manifest file 'p9q4.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'p9q4.egg-info/SOURCES.txt'
running check
creating p9q4-0.0.1
creating p9q4-0.0.1/imdb
creating p9q4-0.0.1/p9q4.egg-info
copying files to p9q4-0.0.1...
copying LICENSE -> p9q4-0.0.1
copying README.md -> p9q4-0.0.1
copying pyproject.toml -> p9q4-0.0.1
copying imdb/__init__.py -> p9q4-0.0.1/imdb
copying imdb/imdb.py -> p9q4-0.0.1/imdb
copying p9q4.egg-info/PKG-INFO -> p9q4-0.0.1/p9q4.egg-info
copying p9q4.egg-info/SOURCES.txt -> p9q4-0.0.1/p9q4.egg-info
copying p9q4.egg-info/dependency_links.txt -> p9q4-0.0.1/p9q4.egg-info
copying p9q4.egg-info/requirements.txt -> p9q4-0.0.1/p9q4.egg-info
copying p9q4.egg-info/top_level.txt -> p9q4-0.0.1/p9q4.egg-info
Writing p9q4-0.0.1/setup.cfg
Creating tar archive
removing 'p9q4-0.0.1' (and everything under it)
* Building wheel from sdist
* Creating venv isolated environment...
* Installing packages in isolated environment... (setuptools>=61.0.0, wheel)
* Getting dependencies for wheel...
running egg_info
writing p9q4.egg-info/PKG-INFO
writing dependency_links to p9q4.egg-info/dependency_links.txt
writing requirements to p9q4.egg-info/requirements.txt
writing top-level names to p9q4.egg-info/top_level.txt
reading manifest file 'p9q4.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'p9q4.egg-info/SOURCES.txt'
* Installing packages in isolated environment... (wheel)
* Building wheel...
running bdist_wheel
running build
running build_py
creating build
creating build/lib
creating build/lib/imdb
copying imdb/__init__.py -> build/lib/imdb
copying imdb/imdb.py -> build/lib/imdb
running egg_info
writing p9q4.egg-info/PKG-INFO
writing dependency_links to p9q4.egg-info/dependency_links.txt
writing requirements to p9q4.egg-info/requirements.txt
writing top-level names to p9q4.egg-info/top_level.txt
reading manifest file 'p9q4.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'p9q4.egg-info/SOURCES.txt'

```

```

In [8]: display.Image("/home/x-gonza533/Project09/Question_4_2.PNG")

```

```

Out[8]: * Installing packages in isolated environment... (wheel)
* Building wheel...
running bdist_wheel
running build
running build_py
creating build
creating build/lib
creating build/lib/imdb
copying imdb/_init__.py -> build/lib/imdb
copying imdb/imdb.py -> build/lib/imdb
running egg_info
writing p9q4.egg-info/PKG-INFO
writing dependency_links to p9q4.egg-info/dependency_links.txt
writing requirements to p9q4.egg-info/requirements.txt
writing top-level names to p9q4.egg-info/top_level.txt
reading manifest file 'p9q4.egg-info/SOURCES.txt'
adding license file 'LICENSE'
writing manifest file 'p9q4.egg-info/SOURCES.txt'
installing to build/bdist.linux-x86_64/wheel
running install
running install_lib
creating build/bdist.linux-x86_64
creating build/bdist.linux-x86_64/wheel
creating build/bdist.linux-x86_64/wheel/imdb
copying build/lib/imdb/_init__.py -> build/bdist.linux-x86_64/wheel/imdb
copying build/lib/imdb/imdb.py -> build/bdist.linux-x86_64/wheel/imdb
running install_egg_info
Copying p9q4.egg-info to build/bdist.linux-x86_64/wheel/p9q4-0.0.1-py3.10.egg-info
running install_scripts
adding license file "LICENSE" (matched pattern "LICEN[CS]E*")
creating build/bdist.linux-x86_64/wheel/p9q4-0.0.1.dist-info/WHEEL
creating '/home/x-gonza533/tdm-louis/dist/tmp7o3d782t/p9q4-0.0.1-py3-none-any.whl' and adding 'build/bdist.linux-x86_64/wheel' to it
adding 'imdb/_init__.py'
adding 'imdb/imdb.py'
adding 'p9q4-0.0.1.dist-info/LICENSE'
adding 'p9q4-0.0.1.dist-info/METADATA'
adding 'p9q4-0.0.1.dist-info/WHEEL'
adding 'p9q4-0.0.1.dist-info/top_level.txt'
adding 'p9q4-0.0.1.dist-info/RECORD'
removing build/bdist.linux-x86_64/wheel
Successfully built p9q4-0.0.1.tar.gz and p9q4-0.0.1-py3-none-any.whl

```

**Checking the package with twine

```

In [9]: display.Image("/home/x-gonza533/Project09/Question_4_3.PNG")

```

```

Out[9]: (p9q4) x-gonza533@a249.anvil:~] $ python3 -m twine check $HOME/tdm-louis/dist/*
Checking /home/x-gonza533/tdm-louis/dist/p9q4-0.0.1-py3-none-any.whl: PASSED
Checking /home/x-gonza533/tdm-louis/dist/p9q4-0.0.1.tar.gz: PASSED with warnings
WARNING: 'long_description' missing.
(p9q4) x-gonza533@a249.anvil:~] $ █

```

**Uploading the package to testpypi.org

```

In [10]: display.Image("/home/x-gonza533/Project09/Question_4_4.PNG")

```

```

Out[10]: (p9q4) x-gonza533@a249.anvil:~] $ python3 -m twine upload -r testpypi $HOME/tdm-louis/dist/*
Uploading distributions to https://test.pypi.org/legacy/
Enter your username: gonza533
WARNING: Error getting password from keyring
Traceback (most recent call last):
  File "/home/x-gonza533/p9q4/lib/python3.10/site-packages/twine/auth.py", line 74, in get_password_from_keyring
    return cast(str, keyring.get_password(system, username))
  File "/home/x-gonza533/p9q4/lib/python3.10/site-packages/keyring/core.py", line 55, in get_password
    return get_keyring().get_password(service_name, username)
  File "/home/x-gonza533/p9q4/lib/python3.10/site-packages/keyring/backends/fail.py", line 25, in get_password
    raise NoKeyringError(msg)
keyring.errors.NoKeyringError: No recommended backend was available. Install a recommended 3rd party backend package; or, install the keyrings.alt package if you want to use the non-recommended backends. See https://pypi.org/project/keyring for details.
Enter your password:
Uploading p9q4-0.0.1-py3-none-any.whl
100% ————— 7.5/7.5 kB • 00:00 • ?
Uploading p9q4-0.0.1.tar.gz
100% ————— 6.5/6.5 kB • 00:00 • ?

View at:
https://test.pypi.org/project/p9q4/0.0.1/
(p9q4) x-gonza533@a249.anvil:~] $ █

```

**I was having issues with the .toml file, so I changed the name of the package to the name of the virtual environment. I am certain that this is not the reason it worked but I didn't want to jynx it and have it not work.

```

In [11]: display.Image("/home/x-gonza533/Project09/Question_4_5.PNG")

```

Out[11]:

p9q4 0.0.1

pip install -i https://test.pypi.org/simple/ p9q4==0.0.1

✓

Latest version

Released: 2 minutes ago

Does some annoying things

Manage project

Navigation

Project description

Release history

Download files

Project description

The author of this package has not provided a project description

Statistics

View statistics for this project via [Libraries.io](#), or by using [our public dataset on Google BigQuery](#)

Meta

License: MIT License (MIT License)

Copyright (c) [year] [fullname]

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Question 5

**Deactivate old venv, create and activate new one, install twine, and uploading to pypi.org

In [12]:

```
display.Image("/home/x-gonza533/Project09/Question_5_1.PNG")
```

Out[12]:

```
(p9q5) x-gonza533@a249.amvil:~$ python3 -m twine upload $HOME/tom-louis/dist/*
Uploading distributions to https://upload.pypi.org/legacy/
Enter your username: gonzalou
WARNING: Error getting password from keyring
Traceback (most recent call last):
  File "/home/x-gonza533/p9q5/lib/python3.10/site-packages/twine/auth.py", line 74, in get_password_from_keyring
    return cast(str, keyring.get_password(system, username))
  File "/home/x-gonza533/p9q5/lib/python3.10/site-packages/keyring/core.py", line 55, in get_password
    return get_keyring().get_password(service_name, username)
  File "/home/x-gonza533/p9q5/lib/python3.10/site-packages/keyring/backends/fail.py", line 25, in get_password
    raise NoKeyringError(msg)
keyring.errors.NoKeyringError: No recommended backend was available. Install a recommended 3rd party backend package; or, install the keyrings.alt package if you want to use the non-recommended backends. See https://pypi.org/project/keyring for details.
Enter your password:
Uploading p9q4-0.0.1-py3-none-any.whl 7.5/7.5 kB • 00:00 • ?
100%
Uploading p9q4-0.0.1.tar.gz 6.5/6.5 kB • 00:00 • ?
100%

View at:
https://pypi.org/project/p9q4/0.0.1/
(p9q5) x-gonza533@a249.amvil:~$ █
```

**Screenshot of the package on pypi

In [13]:

```
display.Image("/home/x-gonza533/Project09/Question_5_2.PNG")
```

Released: less than a minute ago

Manage project

Project description

 Download files

The author of this package has not provided a project description

Statistics

View statistics for this project via [Libraries.io](#), or by using our public dataset on [Google BigQuery](#)

Meta

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Copyright (c) [year] [full name]
Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions: The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software. THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.)

Author: [Louis Gonzalez](#) 

example.imdb.tutorial.sadness

Requires: Python >=3.10

****installing the uploaded package and running the get_rating function from the imdb package**

```
display.Image("/home/x-gonza533/Project09/Question 5 3.PNG")
```

```
(p9q5) x-gonza533@a249.anvil: [~] $ python3 -m pip install p9q4
Collecting p9q4
  Downloading p9q4-0.0.1-py3-none-any.whl (3.2 kB)
Requirement already satisfied: requests>=2.28.1 in ./p9q5/lib/python3.10/site-packages (from p9q4) (2.28.1)
Collecting lxml>=4.9.1
  Using cached lxml-4.9.1-cp310-cp310-manylinux_2_17_x86_64.manylinux2014_x86_64.manylinux_2_24_x86_64.whl (6.9 MB)
Requirement already satisfied: charset-normalizer<3,>=2 in ./p9q5/lib/python3.10/site-packages (from requests>=2.28.1->p9q4) (2.1.1)
Requirement already satisfied: certifi>=2017.4.17 in ./p9q5/lib/python3.10/site-packages (from requests>=2.28.1->p9q4) (2022.9.24)
Requirement already satisfied: idna<4,>=2.5 in ./p9q5/lib/python3.10/site-packages (from requests>=2.28.1->p9q4) (3.4)
Requirement already satisfied: urllib3<1.27,>=1.21.1 in ./p9q5/lib/python3.10/site-packages (from requests>=2.28.1->p9q4) (1.26.12)
Installing collected packages: lxml, p9q4
Successfully installed lxml-4.9.1 p9q4-0.0.1

WARNING: You are using pip version 22.0.4; however, version 22.3 is available.
You should consider upgrading via the '/home/x-gonza533/p9q5/bin/python3 -m pip install --upgrade pip' command.
(p9q5) x-gonza533@a249.anvil: [~] $ python3
Python 3.10.5 (main, Jul 1 2022, 13:14:55) [GCC 11.2.0] on linux
Type "help", "copyright", "credits" or "license()" for more information.
>>> import imdb
>>> imdb.get_rating("tt4236770")
8.7
>>>
```



```
-----  
ModuleNotFoundError                                Traceback (most recent call last)  
Input In [17], in <cell line: 1>()  
----> 1 import pandoc  
  
ModuleNotFoundError: No module named 'pandoc'
```

Pledge

By submitting this work I hereby pledge that this is my own, personal work. I've acknowledged in the designated place at the top of this file all sources that I used to complete said work, including but not limited to: online resources, books, and electronic communications. I've noted all collaboration with fellow students and/or TA's. I did not copy or plagiarize another's work.

As a Boilermaker pursuing academic excellence, I pledge to be honest and true in all that I do. Accountable together – We are Purdue.