



Jupyter assignment1 Last Checkpoint: 2 minutes ago (autosaved)





Assignment 1

For this assignment you are welcomed to use other regex resources such a regex "cheat sheets" you find on the web.

Before start working on the problems, here is a small example to help you understand how to write your own answers. In short, the solution should be written within the function body given, and the final result should be returned. Then the autograder will try to call the function and validate your returned result accordingly.

Part A

Find a list of all of the names in the following string using regex.

Part B

The dataset file in <u>assets/grades.txt</u> contains a line separated list of people with their grade in a class. Create a regex to generate a list of just those students who received a B in the course.

```
In [14]: ▶ import re
                   def grades():
                         with open ("assets/grades.txt", "r") as file:
    grades = file.read()
                         # YOUR CODE HERE
                        # YOUR CODE HERE
students =[]
for item in re.finditer("([\w]+\s[\w]+)(\:\sB)", grades):
    students.append(item.group(1))
                        return students
                         raise NotImplementedError()
                   grades()
     Out[14]: ['Bell Kassulke',
                    'Simon Loidl',
'Elias Jovanovic',
                    'Hakim Botros',
'Emilie Lorentsen',
'Jake Wood',
'Fatemeh Akhtar',
                    'Kim Weston'
'Yasmin Dar'
                     'Viswamitra Upandhye',
                    'Killian Kaufman',
'Elwood Page',
'Elodie Booker',
                     'Adnan Chen'
                     'Hank Spinka',
'Hannah Bayer']
```

Part C

Consider the standard web log file in <u>assets/logdata.txt</u>. This file records the access a user makes when visiting a web page (like this one!). Each line of the log has the following items:

- a host (e.g., '146.204.224.152')
- a user_name (e.g., 'feest6811' note: sometimes the user name is missing! In this case, use '-' as the value for the username.)
- the time a request was made (e.g., '21/Jun/2019:15:45:24 -0700')
- the post request type (e.g., 'POST /incentivize HTTP/1.1' note: not everything is a POST!)

Your task is to convert this into a list of dictionaries, where each dictionary looks like the following: