


Welcome Rodney Che from Using Python to Access Web Data

## Following Links in Python

In this assignment you will write a Python program that expands on <http://www.py4e.com/code3/urllinks.py> . The program will use **urllib** to read the HTML from the data files below, extract the href= vaues from the anchor tags, scan for a tag that is in a particular position relative to the first name in the list, follow that link and repeat the process a number of times and report the last name you find.

We provide two files for this assignment. One is a sample file where we give you the name for your testing and the other is the actual data you need to process for the assignment

- Sample problem: Start at [http://py4e-data.dr-chuck.net/known\\_by\\_Fikret.html](http://py4e-data.dr-chuck.net/known_by_Fikret.html) 

Find the link at position **3** (the first name is 1). Follow that link. Repeat this process **4** times. The answer is the last name that you retrieve.

Sequence of names: Fikret Montgomery Mhairade Butchi Anayah

Last name in sequence: Anayah

- Actual problem: Start at: [http://py4e-data.dr-chuck.net/known\\_by\\_Destiny.html](http://py4e-data.dr-chuck.net/known_by_Destiny.html) 

Find the link at position **18** (the first name is 1). Follow that link. Repeat this process **7** times. The answer is the last name that you retrieve.

Hint: The first character of the name of the last page that you will load is: A

## Strategy

The web pages tweak the height between the links and hide the page after a few seconds to make it difficult for you to do the assignment without writing a Python program. But frankly with a little effort and patience you can overcome these attempts to make it a little harder to complete the assignment without writing a Python program. But that is not the point. The point is to write a clever Python program to solve the program.

## Sample execution

Here is a sample execution of a solution:

Done

```
$ python3 solution.py
Enter URL: http://py4e-data.dr-chuck.net/known_by_Fikret.html
Enter count: 4
Enter position: 3
Retrieving: http://py4e-data.dr-chuck.net/known_by_Fikret.html
Retrieving: http://py4e-data.dr-chuck.net/known_by_Montgomery.html
Retrieving: http://py4e-data.dr-chuck.net/known_by_Mhairade.html
Retrieving: http://py4e-data.dr-chuck.net/known_by_Butchi.html
Retrieving: http://py4e-data.dr-chuck.net/known_by_Anayah.html
```

The answer to the assignment for this execution is "Anayah".

### Turning in the Assignment

Enter the last name retrieved and your Python code below:

Name:  (name starts with A)

Python code: