I used a python code, spider.py, which consisted of BeautifulSoup to run a page crawl on betterhelp.com, an online mental health service portal.

```
C:\Users\ilmaa\Desktop\code3\pagerank>spider.py
Restarting existing crawl. Remove spider.sqlite to start a fresh crawl.
['http://betterhelp.com']
How many pages:2000
651 http://betterhelp.com/sarresa-thorson (37735) 31
1194 http://betterhelp.com/norra-macready (35439) 31
1216 http://betterhelp.com/ingrid-weibust (35460) 30
308 http://betterhelp.com/angelica-simpson (40947) 31
507 http://betterhelp.com/therapists/pa/rockledge (166813) 202
85 http://betterhelp.com/start/?counselor=23738 (331868) 29
679 http://betterhelp.com/annie-wilson (36876) 31
430 http://betterhelp.com/justin-nobles (76297) 48
1007 http://betterhelp.com/katarina-olea (58069) 31
662 http://betterhelp.com/start/?counselor=1013 (331871) 29
1112 http://betterhelp.com/start/?counselor=7462 (332381) 29
1076 http://betterhelp.com/therapists/tx/oak-point (165241) 202
753 http://betterhelp.com/therapists/tx/nevada (164894) 202
480 http://betterhelp.com/start/?counselor=18424 (332390) 29
1096 http://betterhelp.com/phyllis-siebern (34385) 30
682 http://betterhelp.com/start/?counselor=17253 (331884) 29
536 http://betterhelp.com/start/?counselor=15711 (332384) 29
649 http://betterhelp.com/sarah-davis (36912) 31
262 http://betterhelp.com/alice-hamlin (58898) 31
530 http://betterhelp.com/start/?counselor=14789 (331886) 29
1374 http://betterhelp.com/start/?counselor=11812 (332407) 29
1210 http://betterhelp.com/kaniecia-mixon (52392) 31
```

Later, I ran a pagerank script, sprank.py, to rank the crawled pages based on link quality. Next, I visualized the link ranks on the command prompt by running spdump.py.

```
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```

```
Command Prompt
C:\Users\ilmaa\Desktop\code3\pagerank>sprank.p
  ow many iterations:100
0.9512081062602212
0.11961854472968407
   0.011957253355246394
0.011957253355246394
0.0014748272494620812
0.00014928054488301626
1.3475675932161958e-05
   2.2092098370669096e-06
2.7622547866276155e-07
      3.3037127001870365e-08
5.61535378586056e-09
      8.540414588316479e-10
     1.4063377302479307e-10
2.4636988171394648e-11
4.174429308902529e-12
7.112334400546169e-13
      1.2365302151118938e-13
2.283729555747335e-14
      4.049763740144669e-15
3.8618176514157266e-15
      3.2114776002696424e-15
1.6132664137008058e-15
      2.8197870894399984e-15
2.306404629862915e-15
      1.6960779238660143e-15
1.084872391540184e-15
      1.5325541603459191e-15
1.2797445649172885e-15
1.8109749721929976e-15
1.5945271988768378e-15
      2.408209346151655e-15
      2.2480101022462384e-15
1.7717339389796261e-15
      1.3284455712526217e-15
2.713817643439716e-15
1.699554250843082e-15
6.869829992585842e-16
      1.4030756410022779e-15
3.861800998747984e-16
      1.5870654251818435e-15
2.1337305091740677e-15
      1.6149285168070497e-15
1.2640056551419433e-15
      1.2640950551419433e-15
1.6731727892492129e-15
1.0596669695485243e-15
8.91349289655754e-16
6.875985698650893e-16
1.341251076759101e-15
1.2935180815840344e-15
      5.053329614837249e-16
```

At the very end, I visualized the top 25 links of betterhelp.com using force.html.

Starting url: http://betterhelp.com

