

```
1  def DNSLookup(url_input):
2      #Internal DNS table.
3      #This is just a single string!
4      rt = 'www.google.com,74.125.227.112,'
5      rt = rt + 'www.cnn.com,157.166.241.10,'
6      rt = rt + 'www.carleton.ca,134.117.6.21'
7      rt = rt.split(',')
8      url = url_input.strip()
9      url = url.split('///')
10     #very basic check.
11     if(url[0].lower()=='http:'):
12         #check to see if address
13         #is in DNS table
14         #take your time and look closely at this line.
15         #If you have trouble figuring out what it
16         #does try doing this in multiple lines of code.
17         #Try http://134.117.6.21 as a url.
18         return rt[rt.index(url[1])+1]
19     #was not proper url
20     else:
21         return 'not valid'
22
23 # The testing script for this file.
24 if(__name__=='__main__'):
25     str1=""
26     run_loop = True
27     while(run_loop):
28         url = raw_input(str1)
29         ip_addr = DNSLookup(url)
30         if(ip_addr=='not valid'):
31             print 'Not a valid url, or not found in DNS table.'
32             run_loop = False
33         else:
34             print "IP address of " + url + " is " + ip_addr
```