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'''
evolving-search-engine-using-genetic-algorithm
https://code.google.com/p/evolving-search-engine-using-genetic-algorithm/
Our venture presents a new method of developing a search engine using Genetic Algorithm. It
takes a word, a phrase etc as input and lists the URLs containing the mentioned content.

    The project is being implemented in three steps namely web crawling, web indexing and
    searching. A Web crawler is an Internet bot that systematically browses the World Wide Web,
    typically for the purpose of Web indexing. Web indexing refers to various methods for
    indexing the contents of a website or of the Internet as a whole. A genetic algorithm is a
    search heuristic that mimics the process of natural evolution. Genetic algorithm can solve
    every optimization problem, it can also solve problems with multiple solutions. The project
    is applicable in all fields related to searching and finding the optimal solution.

'''

from StringIO import StringIO
import pycurl
import BeautifulSoup
import re
import MySQLdb as mdb
import urllib2

def visible(element):
    if element.parent.name in ['style', 'script', '[document]', 'head', 'title']:
        return False
    elif re.match('<!--.*-->', element):
        return False
    return True

url=raw_input("url ? <http://url>: ")
page=urllib2.urlopen(url)
content=page.read()
soup = BeautifulSoup.BeautifulSoup(content)
texts = soup.findAll(text=True)
visible_texts = filter(visible, texts)
print visible_texts
save=""
for word in visible_texts:
    save+=word
print save
save=save.encode('ascii','ignore')
print "Saving to Database Now..."
con = mdb.connect('localhost', 'root','foobar', 'testdb')
with con:
    print "Connection Established."
    cur=con.cursor()
    query="INSERT INTO urllist (url,content) VALUES ('"+url+"','"+save+"')"
    cur.execute(query)
    cur.execute("SELECT * FROM urllist")
    rows=cur.fetchall()
    for row in rows:
        print row
```