

## Activity 1:

```
Last login: Wed Feb 12 13:37:02 on ttys003
jordannetz@dhcp-172-31-166-095 ~ % ping google.com
PING google.com (142.250.189.14): 56 data bytes
64 bytes from 142.250.189.14: icmp_seq=0 ttl=56 time=12.417 ms
64 bytes from 142.250.189.14: icmp_seq=1 ttl=56 time=9.562 ms
64 bytes from 142.250.189.14: icmp_seq=2 ttl=56 time=9.592 ms
'64 bytes from 142.250.189.14: icmp_seq=3 ttl=56 time=6.423 ms
^R
64 bytes from 142.250.189.14: icmp_seq=4 ttl=56 time=9.580 ms
64 bytes from 142.250.189.14: icmp_seq=5 ttl=56 time=5.764 ms
^C
--- google.com ping statistics ---
6 packets transmitted, 6 packets received, 0.0% packet loss
round-trip min/avg/max/stddev = 5.764/8.890/12.417/2.226 ms
```

## Activity 3: the html is now in google.html

```
print_url.py  download_url.py  google.html  X
lec10 > <> google.html > ...
1 <!DOCTYPE html>
2 <html itemscope="" itemtype="http://schema.org/WebPage" lang="en">
3 <head>
4 <meta
5 content="Search the world's information, including webpages, images, videos and more. Google has many special features to help you find exactly what you're looking for."
6 name="description"
7 />
8 <meta content="noopy, " name="robots" />
9 <meta content="text/html; charset=UTF-8" http-equiv="Content-Type" />
10 <meta
11 content="/images/branding/google/1x/google_standard_color_128dp.png"
12 itemprop="image"
13 />
14 <title>Google</title>
15 <script nonce="chCvtV0xepZehFshfif">
16 (function () {
17 var _g = {
18 MEI: "30WuZ6CnLKBKIP07TqIas",
19 KEPI:
20 "93780251,698,435,448529,93804,2891,89155,344796,154960,57802,14360,1,28980,11813,38911,5241523,8835134,33,27977634,25228681,112124,86,180894,884,14288,8182,5933,11942,31554,1
21 KBL: "3Lq0",
22 KDP: 89978449,
23 };
24 (function () {
25 var a;
26 ((a = window.google) == null ? a : a.stvc)
27 ? (google.MEI = _g.MEI)
28 : (window.google = _g);
29 }).call(this);
30 })();
31 (function () {
32 google.sn = "webhp";
33 google.hl = "en";
34 })();
35 (function () {
36 var g = this || self;
37 function kl() {
38 //www.google.com/66-window.google.KDP1.11.html
```

## Activity 2: got the html from url

```
raise ValueError("unknown url type: %r" % self.full_url)
ValueError: unknown url type: 'google.com'
jordannetz@dhcp-172-31-166-095 ics32 /opt/homebrew/bin/python3 /Users/jordannetz/Desktop/UCI/ics32/lec10/print_url.py
Enter an URL:
> <HEADER><n<TITLE>The World Wide Web project</TITLE><n<NEXTID>N=53"><n<HEADER><n<BODY><n<HI>World Wide Web</HI>The WorldWideWeb (W3) is a wide-area<n<NL
tion retrieval\initiative aiming to give universal\access to a large universe of documents.<p><nEverything there is online about\N3 is linked directly o
NAME=24 HREF="Summary.html">executive\summary</A> of the project, <A\NAME=29 HREF="Administration/Mailing/Overview.html">Mailing lists</A>n, <A\NAME=30
NAME=34 HREF="News/9211.html">W3 news</A>, <n<A\NAME=41 HREF="FAQ/List.html">Frequently Asked Questions</A>. <n<D><n<D><A\NAME=44 HREF="..DataSouce
to the\world\>s online information.<A\NAME=45 HREF="..DataSources/bySubject/Overview.html"> subjects</A>n, <A\NAME=254 HREF="..DataSources/MM/Serve
EF="Help.html">Help</A><n<D> on the browser you are using<n<D><A\NAME=13 HREF="Status.html">Software Products</A><n<D> A list of W3 project\components
="LineMode/Browser.html">Line Mode</A>, <X11 <A\NAME=35 HREF="Status.html#35">Viola</A>, <A\NAME=26 HREF="Next/WorldWideWeb.html">NextStep</A>n, <A\NAME=51 HREF="Tools/Overview.html">Tools</A>, <A\NAME=53 HREF="MailRobot/Overview.html"> Mail robot</A>, <A\NAME=52 HREF="Status.html#57">\nLibrary</A>
cal</A><n<D> Details of protocols, formats,\nprogram internals etc<n<D><A\NAME=40 HREF="Bibliography.html">Bibliography</A><n<D> Paper documentation\o
le.html">People</A><n<D> A list of some people involved\in the project.<n<D><A\NAME=15 HREF="History.html">History</A><n<D> A summary of the history\,
n1">How can I help</A> ?<n<D> If you would like\to support the web.<n<D><A\NAME=48 HREF="..README.html">Getting code</A><n<D> Getting the code by<A\
l">\nanonymous FTP</A>, etc.</A><n<D></n<BODY><n!
jordannetz@dhcp-172-31-166-095 ics32 /opt/homebrew/bin/python3 /Users/jordannetz/Desktop/UCI/ics32/lec10/print_url.py
```

## Activity 4: error handling

```
def _download_url(url_to_download: str, file_path: str) -> None:
    response = None
    file_to_save = None

    try:
        response = urllib.request.urlopen(url_to_download)

        file_to_save = open(file_path, "wb")

        while True:
            chunk = response.read()
            if not chunk:
                break
            file_to_save.write()

        except Exception as e:
            print(f"Error downloading {url to download}: {e}")
```