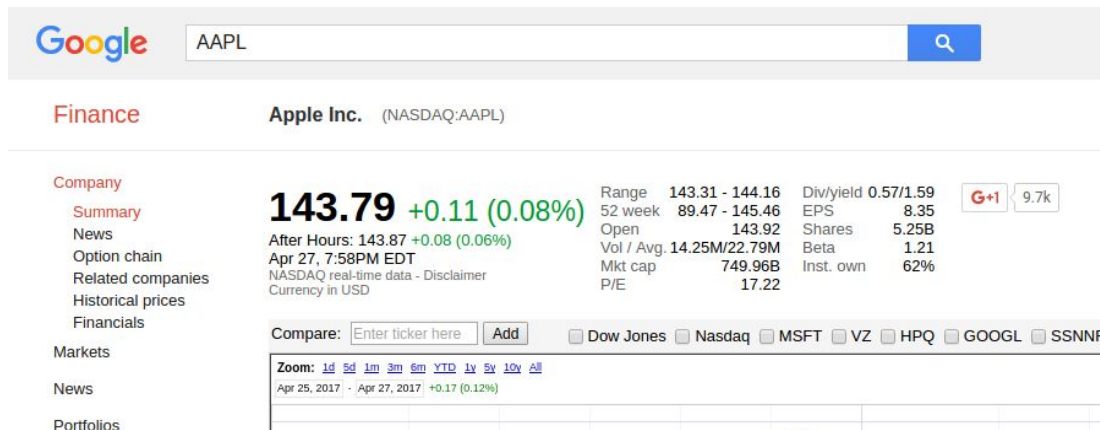


Exercise 1: Scrape the Stock Price for Apple

Below is a screenshot for the Apple Stock page on Google Finance



Below is a screenshot of part of the HTML source for the Apple stock page

```
<div class="g-wrap">
  <div class="g-section sfe-break-bottom-8">...</div>
  <script>...</script>
  <div class="g-section g-tpl-right-1">
    <div class="g-unit g-first">...</div>
    <div class="g-unit">
      <div id="market-data-div" class="id-market-data-div nwp
g-floatfix wide">
        <div id="price-panel" class="id-price-panel goog-
inline-block">
          <div>
            <span class="pr">
              <span id="ref_22144_l">143.79</span>
            </span>
            <div class="id-price-change nwp goog-inline-block">
              ...</div>
            </div>
          <div>...</div>
        </div>
        <div class="snap-panel-and-plusone">...</div>
      </div>
      <script>google.finance.renderMarketData();</script>
      <div id="sharebox-data" itemscope="itemscope" itemtype=
"http://schema.org/Intangible/FinancialQuote">...</div>
```

In the space below, write the code that would extract ONLY the stock price for Apple. Some starter code is provided. Your code should indicate which tag and id contains the Apple stock price, and save that information to a variable called content. Use the screenshot of the HTML source to let you know what tag information should be specified to extract the price.

```
url = "https://www.google.com/finance?q=AAPL"
sourcecode = urllib.urlopen(url)
soup = BeautifulSoup(sourcecode, 'html.parser')
```

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Investor Relations · 4 min 4 seconds ago · [Open in Google Translate](#)

Of the various figures put out in Alphabet/Google's (GOOGL) first-quarter earnings report, none looms larger than 53%. That's the annual growth rate recorded for paid ad clicks and impressions on Google's own sites and apps.

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Amazon.com's logo is seen at Amazon Japan's office building in Tokyo, Japan, August 8, 2016. REUTERS/Kim Kyung-Hoon/File Photo.

[Click growth highlights another strong quarter](#)

</h2>

</div>

▶<div class="esc-lead-article-source-wrapper"></div>

▶<div class="esc-lead-snippet-wrapper"></div>

▶<div class="esc-extension-wrapper"></div>

</td>

</tr>

</tbody>

</table>

</div>

</div>

</div>

</div>

<div class="esc-separator" style="opacity: 1; background-color: rgb(214, 214, 214);"></div>

▼<div class="blended-wrapper esc-wrapper">

▼<div cid="52779472979971" class="story anchorman-blended-story esc esc-has-thumbnail" id=":3e">

▼<div class="esc-inner esc-collapsed">

▼<div class="esc-body">

▼<div class="goog-inline-block jfk-button jfk-button-standard esc-toggle-button" role="button" tabindex="0" style="-webkit-user-select: none; margin-top: 0px;">

<div class="jfk-button-img icon esc-toggle-icon"></div>

▼<div class="esc-default-layout-wrapper esc-expandable-wrapper">

▼<table class="esc-layout-table" cellspacing="0" cellpadding="0">

▼<tbody>

▼<tr>

▼<td class="esc-layout-thumbnail-cell">

▼<div class="esc-thumb-nal-wrapper">

▼<div class="esc-thumb-nal-state">

▶<div class="esc-thumb-nal" title="New York Times"></div>

See realtime coverage

▼<td class="esc-layout-article-cell">

▼<div class="esc-lead-article-title-wrapper">

▼<h2 class="esc-lead-article-title">

▼

Trump Tax Plan Would Shift Trillions From US Coffers to the Richest

</h2>

</div>

▼<div class="esc-lead-article-source-wrapper">

```
url = "https://news.google.com/"
sourcecode = urllib.urlopen(url)
soup = BeautifulSoup(sourcecode, 'html.parser')
```

Scrape the Links from the White House Press Briefing

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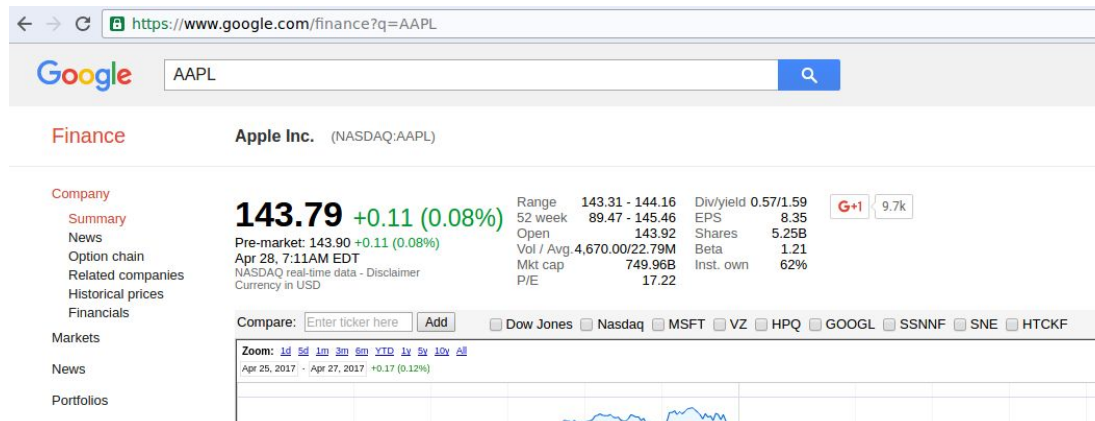
 EMAIL

```
<p id="skip-link">...</p>
<!-- !$page_manager_control: Only show these things if the page isn't a node under the control of page manager. -->
<!-- !$page_manager_control -->
<!-- Main page content -->
<section id="page">
  <div id="nav-overlay"></div>
  <div class="panelizer-view-mode node node-full node-forall-basic-page node-6776">
    <div class="panel-display panel-basic-single-content-col">
      <header class="panel-panel panel-header">...</header>
      <div class="panel-panel panel-wrapper panel-col-section-all">
        <div class="panel-panel panel-col panel-col-section-menu">...</div>
        <div id="content-start" class="panel-panel panel-col panel-col-section-content" tabindex="-1">
          <div class="panel-pane pane-node-title">...</div>
          <div class="panel-pane pane-views-panes pane-press-office-listings-panel-pane-1">
            <div class="view view-press-office-listings view-id-press_office_listings view-display-id-panel_pane_1 view-dom-id-e966ee0fb177efall7c9e858dce6064b">
              <div class="view-content">
                <div class="views-row views-row-1 views-row-odd views-row-first">
                  <div class="views-field views-field-created">...</div>
                  <div class="views-field views-field-title">
                    <h3 class="field-content">
                      <a href="/the-press-office/2017/04/27/daily-press-briefing-press-secretary-sean-spicer-42">Daily Press Briefing by Press Secretary Sean Spicer -- #42</a>
                    </h3>
                  </div>
                </div>
                <div class="views-row views-row-2 views-row-even">
                  <div class="views-field views-field-created">...</div>
                  <div class="views-field views-field-title">
                    <h3 class="field-content">
                      <a href="/the-press-office/2017/04/26/press-briefing-secretary-veterans-affairs-david-shulkin-executive-order">...</a>
                    </h3>
                  </div>
                </div>
                <div class="views-row views-row-3 views-row-odd">
                  <div class="views-field views-field-created">...</div>
                  <div class="views-field views-field-title">
                    <h3 class="field-content">
                      <a href="/the-press-office/2017/04/26/background-briefing-first-100-days">Background Briefing on the First 100 Days</a>
                    </h3>
                  </div>
                </div>
                <div class="views-row views-row-4 views-row-even">...</div>
                <div class="views-row views-row-5 views-row-odd">...</div>
              </div>
            </div>
          </div>
        </div>
      </div>
    </div>
  </div>
</section>
```

In the space below, write the code that would extract ALL of the links to the press briefings from the White House website. Save the list of links as a variable called contents, and then for each link in contents, print them.

```
url = "https://www.whitehouse.gov/briefing-room/press-briefings"
sourcecode = urllib.urlopen(url)
soup = BeautifulSoup(sourcecode, 'html.parser')
```

Exercise 4: Scrape the Stock Price for Apple, Google, and Microsoft



```
<div class="g-wrap">
  <div class="g-section sfe-break-bottom-8">...</div>
  <script>...</script>
  <div class="g-section g-tpl-right-1">
    <div class="g-unit g-first">...</div>
    <div class="g-unit">
      <div id="market-data-div" class="id-market-data-div nwp
g-floatfix wide">
        <div id="price-panel" class="id-price-panel goog-
inline-block">
          <div>
            <span class="pr">
              <span id="ref_22144_l">143.79</span>
            </span>
            <div class="id-price-change nwp goog-inline-block">
              ...</div>
            </div>
            <div>...</div>
          </div>
          <div class="snap-panel-and-plusone">...</div>
        </div>
        <script>google.finance.renderMarketData();</script>
      <div id="sharebox-data" itemscope="itemscope" itemtype=
"http://schema.org/Intangible/FinancialQuote">...</div>
```

In the space below, write code that loops through a list containing the stock symbols for Google ("GOOG"), Apple ("AAPL"), and Microsoft ("MSFT"). It should visit the webpage for each of the stocks, and then extract the stock price for each one, and append each price to a list called "data". Hint: Look at the url for a stock price in the example above

```
stocks = ["GOOG", "AAPL", "MSFT"]
data = []
```