Code:

Question #1

#import the Beautiful Soup module

from bs4 import BeautifulSoup

#open the local HTML file as a text file

textfile = open("UKYexample.html", encoding='utf8')

#use the findAll() function to locate all <p> tags

soup = BeautifulSoup(textfile, "html.parser")

ptags = soup.findAll("p")

#print out the first <p> tag

#print(ptags[1])

#find the <a> tag nested in the first <p> tag

atag = ptags[1].find("a")

#print(atag)

#print out the class attribute value

print(atag['class'][0])

#print the web address of the hyperlink

print(atag['href'])

Output:

Output for question 1:

redtext

http://libraries.uky.edu

Code:

Question #2

#import needed modules

from bs4 import BeautifulSoup

import requests

#provide the web address of the live web

url = 'http://libraries.uky.edu/'

#obtain information from the live web

page = requests.get(url)

# parse the page to obtain the parent div tag

soup = BeautifulSoup(page.text, "html.parser")

contacts = soup.findChildren('table', {'class':"contact-table"})

table = contacts[0]

# Now use a loop to print out all four contact' info

for row in table.findChildren('tr'):

name = row.find("th")

print(name.text)

phone=row.find("p")

print(phone.text)

Output:

Output for question 2:

Phone

859 218-1881

Emergencies

911 / #UKPD(#8573)

UKPD Dispatch

859 257-1616

Environmental Health & Safety

859 257-1376

Code:

Question # 3

#import needed modules

import requests

import bs4

import webbrowser

#locate the website for the NPR news brief

url = 'https://www.npr.org/programs/wait-wait-dont-tell-me/'

#convert the source code to a soup string

response=requests.get(url)

soup = bs4.BeautifulSoup(response.text, 'html')

#locate the tag that contains the mp3 files

casts = soup.findAll('a', {'class': 'audio-module-listen'})

print(casts)

#obtain the weblink for the mp3 file related to the latest news brief

cast=casts[0]['href']

print(cast)

#remove the unwanted compoents in the link

pos=cast.find("?")

print(cast[0:pos])

#extract the mp3 file link, and play the file

mymp3=cast[0:pos]

webbrowser.open(mymp3)

Output:

Output for question # 3

[<a class="audio-module-listen" href="https://ondemand.npr.org/anon.npr-mp3/npr/waitwait/2023/01/20230128\_waitwait\_91ec0b37-acad-47a6-b982-c80198a557a0.mp3?orgId=1&amp;topicId=1052&amp;aggIds=5163715&amp;d=2722&amp;p=35&amp;story=1152116180&amp;dl=1&amp;sc=siteplayer&amp;size=43560169&amp;dl=1&amp;aw\_0\_1st.playerid=siteplayer">

<b class="audio-module-listen-inner">

<b class="audio-module-listen-icon icn-play"></b>

<b class="audio-module-listen-text">

<b class="audio-module-cta">

Listen

</b>

<b class="audio-module-listen-duration">

<span>· </span>

<span>45:22</span>

</b>

</b>

</b>

</a>]

https://ondemand.npr.org/anon.npr-mp3/npr/waitwait/2023/01/20230128\_waitwait\_91ec0b37-acad-47a6-b982-c80198a557a0.mp3?orgId=1&topicId=1052&aggIds=5163715&d=2722&p=35&story=1152116180&dl=1&sc=siteplayer&size=43560169&dl=1&aw\_0\_1st.playerid=siteplayer

https://ondemand.npr.org/anon.npr-mp3/npr/waitwait/2023/01/20230128\_waitwait\_91ec0b37-acad-47a6-b982-c80198a557a0.mp3