Q1. Write a python program to extract the video URL of the first five videos.

In [ ]:

```
import requests
from bs4 import BeautifulSoup

url = 'https://www.youtube.com/results?search_query=python'


response = requests.get(url)



soup = BeautifulSoup(response.text, 'html.parser')
video_urls =

for vid in soup.findAll('a', attrs={'class': 'yt-uix-tile-link'}):5:

video_urls.append('https://www.youtube.com' + vid'href'

print(video_urls)
```

Q2. Write a python program to extract the URL of the video thumbnails of the first five videos.

In [ ]:

```
import requests

from bs4 import BeautifulSoup


url = 'https://www.youtube.com/results?search_query=python'


Make a GET request to fetch the raw HTML content


html_content = requests.get(url).text


Parse the html content


soup = BeautifulSoup(html_content, "lxml")


Print the parsed content i.e. html****print(soup.prettify())


Extract all the <a> tags into a list


a_tags = soup.find_all('a', id='thumbnail')


Get the URL of the first five video thumbnailsfor i in range(5):

print(a_tagsi)
```

Q3. Write a python program to extract the title of the first five videos.

In [ ]:

```
import requests

from bs4 import BeautifulSoup


url = 'https://www.youtube.com/results?search_query=python'


Make a GET request to fetch the raw HTML content


html_content = requests.get(url).text


Parse the html content


soup = BeautifulSoup(html_content, "lxml")


Print the number of videos foundvideo_titles = soup.find_all('a', attrs={'rel': 'spf-pre

for title in video_titles:

print(title'title')
```

Q4. Write a python program to extract the number of views of the first five videos.

In [ ]:

```
import requests

from bs4 import BeautifulSoup


URL of the page from which****data is to be extracted


url = "https://www.youtube.com/results?search_query=python"


HTTP request to the webpage


page = requests.get(url)


Parsing the webpage as****an HTML document


soup = BeautifulSoup(page.content, 'html.parser')


Extracting all the <a> tags into a list


tags = soup.find_all('a')

if "watch" in tag'href':

Forming complete URL for
performing HTTP request
vid_src = "https://www.youtube.com" + tag'href'

HTTP request to the webpage
vid_page = requests.get(vid_src)

Parsing the webpage as an HTML document
soup = BeautifulSoup(vid_page.content, 'html.parser')

Extracting views from the HTML document
views = soup.find('div', attrs={'class': 'watch-view-count'})

Extracting text from the HTML document
views = views.text.strip()

print(views)
```

Q5. Write a python program to extract the time of posting of video for the first five videos.

In [ ]:

```
import requests

from bs4 import BeautifulSoup


get the page content


url = 'https://www.youtube.com/results?search_query=python'

page = requests.get(url)


parse the page content


soup = BeautifulSoup(page.content, 'html.parser')


extract the time of posting for the first five videosfor i in range(5):

video_time = soup.find_all('span', class_='style-scope ytd-thumbnail-overlay-time-status

print("Time of posting for video {} is {}".format(i+1, video_time))
```