23CP301P 21BCP359

## ASSIGNMENT – WEB SCRAPING

## Aim

Implement the basics of HTML tags using BeautifulSoup library and use any html code from the Practical of Web Tech subject.

## Implementation

File: scrap.html
html
<html></html>
<head></head>
<title>&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;Web_Scraping_Example&lt;/td&gt;&lt;/tr&gt;&lt;tr&gt;&lt;td&gt;</title>
<body></body>
<h1></h1>
Welcome to my Webpage!
My name is Harsh Shah!
Roll no 21BCP359, Div-6 G12
Implementing Web Scraping using BeautifulSoup in Python!
<0l>
<li><li>i&gt;</li></li>
List-1

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```
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  <1i>
  List-2
  <1i>
  List-3
  <1i>
  List-4
  </01>
 <div>
 Now creating a division element in the webpage.
 </div>
</body>
</html>
File: scrap.html
from bs4 import BeautifulSoup
with open("UNIT 3\Assignment\scrap.html", "r") as htmlfile:
  content = htmlfile.read()
soup = BeautifulSoup(content, "html.parser")
title = soup.title
print("Title: ", title.text)
heading = soup.h1
print("Heading: ", heading.text)
paragraphs = soup.find_all("p")
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```

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print("Paragraphs: ")
for paragraph in paragraphs:
  print(paragraph.text)
lists = soup.find all("li")
print("Lists: ")
for list in lists:
  print(list.text)
print()
print("New HTML File")
print()
new list = soup.new tag("li")
new list.string = "List-4"
ol = soup.ol
ol.append(new_list)
lists = soup.find all("li")
print("Lists: ")
for list in lists:
  print(list.text)
div = soup.new tag("div")
div.string = "Now creating a division element in the webpage."
body = soup.body
body.append(div)
print(div.text)
with open(r"UNIT 3\Assignment\scrap.html", "w") as htmlfile:
  htmlfile.write(soup.prettify())
```

23CP301P 21BCP359 File: new\_scrap.html <!DOCTYPE html> <html> <head> <title> Web\_Scraping\_Example </title> </head> <body> <h1> Welcome to my Webpage! </h1> My name is Adit Shah! Roll no.- 21BCP419, Div-6 G12 > Implementing Web Scraping using BeautifulSoup in Python! <01> <1i> List-1 <1i> List-2 <1i> List-3 

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## Output

```
Title: Web_Scraping_Example
Heading: Welcome to my Webpage!
Paragraphs:
My name is Adit Shah!
Roll no.- 21BCP419, Div-6 G12
Implementing Web Scraping using BeautifulSoup in Python!
Lists:
List-1
List-2
List-3
New HTML File
Lists:
List-1
List-2
List-3
List-4
Now creating a division element in the webpage.
```