## Practical – 9: Web Scraping

Read a website(with tabular data ) as HTML and perform basic tabular data analysis as practical 7

## Code:

```
from gettext import install
import bs4 as bs4
import html5lib as html5lib
import pip
import requests as requests
pip install requests
pip install html5lib
pip install bs4
import requests
URL = "https://www.dp.org/data-structures/"
r = requests.get(URL)
print(r.content)
#This will not run on online IDE
import requests
from bs4 import BeautifulSoup
URL = "http://www.values.com/inspirational-quotes"
r = requests.get(URL)
soup = BeautifulSoup(r.content, 'html5lib') # If this line causes an error,
run 'pip install html5lib' or install html5lib
print(soup.prettify())
#Python program to scrape website
\#and save quotes from website
import requests
from bs4 import BeautifulSoup
import csv
URL = "http://www.values.com/inspirational-quotes"
r = requests.get(URL)
soup = BeautifulSoup(r.content, 'html5lib')
quotes=[] # a list to store quotes
table = soup.find('div', attrs = {'id':'all quotes'})
for row in table.findAll('div',attrs = {'class':'col-6 col-lg-3 text-center
margin-30px-bottom sm-margin-30px-top'):
   quote = {}
   quote['theme'] = row.h5.text
   quote['url'] = row.a['href']
   quote['imq'] = row.img['src']
   quote['lines'] = row.img['alt'].split(" #")[0]
   quote['author'] = row.img['alt'].split(" #")[1]
   quotes.append(quote)
filename = 'inspirational quotes.csv'
with open(filename, 'w', newline='') as f:
```

```
w = csv.DictWriter(f,['theme','url','img','lines','author'])
w.writeheader()
for quote in quotes:
    w.writerow(quote)
```

## **Output:**

```
quote['theme'] = row.h5.text
```

```
quote['url'] = row.a['href']
```

```
filename = 'inspirational_quotes.csv'
with open(filename, 'w', newline='') as f:
    w = csv.DictWriter(f,['theme','url','img','lines','author'])
    w.writeheader()
    for quote in quotes:
        w.writerow(quote)
```