DATA SCIENCE LAB

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Roll No:17

Batch: MCA-B

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Experiment No.: 12

Aim

N grams

Procedure

a)

```
import nltk
from nltk.util import ngrams
text = "this is a very good book to study";
Ngrams = ngrams(sequence=nltk.wordpunct_tokenize(text), n=3)
for grams in Ngrams:
 print(grams)
```

Output:

```
('this', 'is', 'a')
('is', 'a', 'very')
('a', 'very', 'good')
('very', 'good', 'book')
('good', 'book', 'to')
('book', 'to', 'study')
```

b)

```
import requests
from bs4 import BeautifulSoup
import csv

URL = "http://www.values.com/inspirational-quotes"
r = requests.get(URL)

soup = BeautifulSoup(r.content, 'html5lib')

print(soup.prettify())
```

Output

```
<!DOCTYPE html>
<html class="no-js" dir="ltr" lang="en-US">
 <head>
  <meta charset="utf-8"/>
  <meta content="text/html; charset=utf-8" http-equiv="content-type"/>
  <meta content="IE=edge" http-equiv="X-UA-Compatible"/>
  <meta content="width=device-width,initial-scale=1.0" name="viewport"/>
  <title>
   Inspirational Quotes - Motivational Quotes - | The Foundation for a
Better Life
  </title>
  <meta content="Find the perfect quotation from our hand-picked collection
of inspiring quotes by hundreds of authors." name="description"/>
  <meta content="pass, it, on, passiton, values, kindness"
name="keywords"/>
  <meta content="The Foundation for a Better Life"
name="twitter:site name"/>
  <meta content="@passiton values" name="twitter:site"/>
  <meta content="summary" name="twitter:card"/>
  <meta content="Thank you for visiting." name="twitter:description"/>
  <meta content="https://www.passiton.com/passiton_fbl.jpg"
name="twitter:image"/>
  <meta content="https://www.passiton.com/inspirational-quotes"
property="og:url"/>
  <meta content="The Foundation for a Better Life"
property="og:site name"/>
  <meta content="Welcome to PassItOn.com" property="og:title"/>
  <meta content="https://www.passiton.com/passiton_fbl.jpg"
property="og:image"/>
  <meta content="Thank you for visiting." property="og:description"/>
  <meta content="website" property="og:type"/>
  <link href="/apple-touch-icon.png" rel="apple-touch-icon"
sizes="180x180"/>
  <link href="/favicon-32x32.png" rel="icon" sizes="32x32"
type="image/png"/>
  <link href="/favicon-16x16.png" rel="icon" sizes="16x16"
type="image/png"/>
  <link href="/site.webmanifest" rel="manifest"/>
  <link color="#c8102e" href="/safari-pinned-tab.svg" rel="mask-icon"/>
  <meta content="#ffffff" name="msapplication-TileColor"/>
  <meta content="#ffffff" name="theme-color"/>
  <link crossorigin="anonymous"
href="https://stackpath.bootstrapcdn.com/bootstrap/4.3.1/css/bootstrap.min.
css" integrity="sha384-
ggOyR0iXCbMQv3Xipma34MD+dH/1fQ784/j6cY/iJTQUOhcWr7x9JvoRxT2MZw1T"
rel="stylesheet"/>
  <link data-turbo-track="reload" href="/assets/application-
e8e20e255c69ae39d804fef20f59772f15fb1bc96bf62568750ac089c781848a.css"
rel="stylesheet"/>
  <meta content="authenticity_token" name="csrf-param"/>
  <meta
content="9VHgfcfQZnOvp SCSW1FIX8doR3IKA 4f4jfYi_g2uSjnhPwRCA6AFmwhvCGJM1VfA
x--FgRVlcCBlhOGjvJGQ" name="csrf-token"/>
  <!-- Global site tag (gtag.js) - Google Analytics -->
  <script async="" src="https://www.googletagmanager.com/gtag/js?id=UA-
1179606-29">
  </script>
  <script>
```