Assignment report submitted to

Graduate School at

The University of Arkansas at Little Rock

in partial fulfillment of requirements for the graduate course of 202510 Spring: Data Science - Technologies (9U1)

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ABSTRACT

This assignment consists of implementing a specific technique listed in *Geeks for Geeks* tutorial to scrape a publicly available Web URL using python libraries. Check "List of References" section for the tutorial link.

For this report, the technique chosen to scrape the website using *BeautifulSoup* Library. This report also publishes the inputs and outputs (results).

The website which is used as source to be scraped is a Microsoft Publicly available *MSDN Assessments* and check "List of References" section for the link.

To help complete the assignment, Google Colab environment is used along with *ast*, *requests* and *bs4* modules.

IMPLEMENTATIONT WITH INPUTS AND OUTPUTS

Main Method:

```
from ast import parse
import requests
from bs4 import BeautifulSoup
microsoftLearnUrl='https://learn.microsoft.com/en-
responseData = requests.get(microsoftLearnUrl)
parsedText = BeautifulSoup(responseData.text,'html.parser')
titles = parsedText.find all('a', class = 'card-title margin-none padding-
top-xxs')
outputText = ''
for title in titles:
    index+=1
    outputText += str(index) +') '+ title.string.strip() +'.\n'
print('Total titles scraped: ' + str(index) +'\n')
print(outputText)
```

In the above code snippet, we define the source url on which we try to fetch the response by making a *get* request. Then the python code scrapes the Microsoft site for assessment titles and prints them in a numbered list.

The main method to scrape are *BeautifulSoup* which parses the HTML content of the response using *html.parser*. The next important piece of scraping is to find the useful information like the title of the assessments available on this site. The searching of this information is achieved by using *find_all* method which searched for all 'a' hyperlink tags.

Output:



LIST OF REFERENCES

Microsoft Assessments

https://learn.microsoft.com/en-us/assessments/browse/?page=1&pagesize=30

Geeks for Geeks Python Web Scraping Tutorial

https://www.geeksforgeeks.org/python-web-scraping-tutorial/