**Assignment**

**CSA0805 – Python Programming**

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**Title:**  **Text File Comparator:**

**Problem Statement:** **Design a Python program that compares two text files line by line, highlighting differences and similarities, and optionally generating a unified diff or HTML report for further analysis.**

**Code:** import difflib

first\_file="C:/Users/Thirumalesh .K/OneDrive/Desktop/text\_file\_1.txt"

second\_file="C:/Users/Thirumalesh .K/OneDrive/Desktop/text\_file\_2.txt"

first\_file\_lines=open(first\_file).readlines()

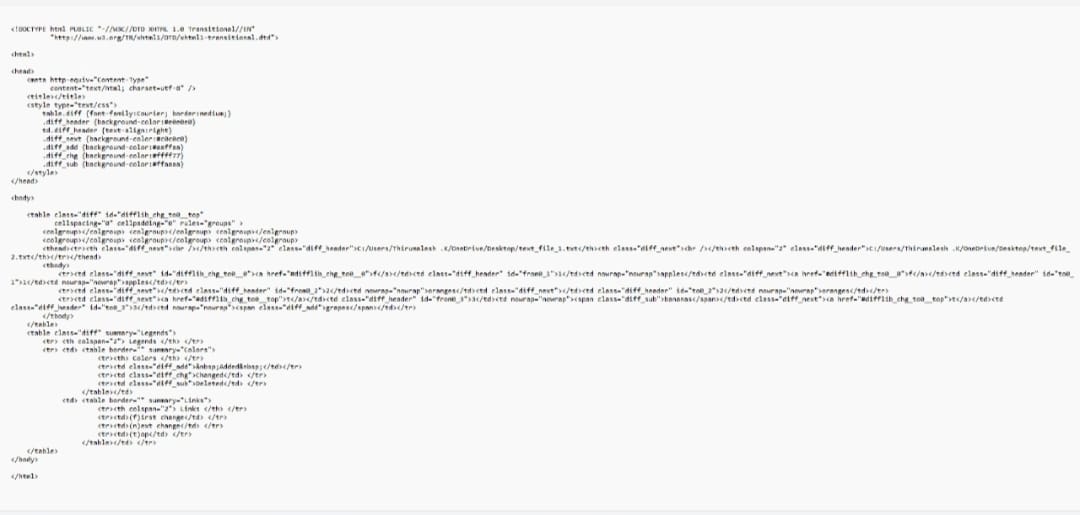
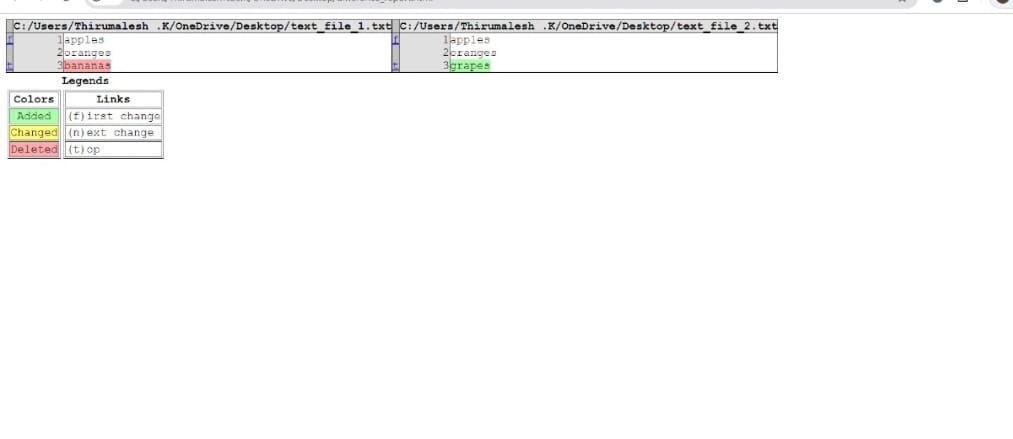
second\_file\_lines=open(second\_file).readlines()

difference=difflib.HtmlDiff().make\_file(first\_file\_lines,second\_file\_lines,first\_file,second\_file)

difference\_report=open('C:/Users/Thirumalesh .k/OneDrive/Desktop/difference\_report.html','w')

difference\_report.write(difference)

difference\_report.close()

**Output Screen Shots: **

Conclusion:

This Python program efficiently compares two text files line by line, highlighting differences and similarities. It also provides options to generate a unified diff or an HTML report, making it a versatile tool for analyzing and sharing file comparisons. Its design ensures user-friendliness and robustness, making it valuable for various use cases where tracking changes between text documents is essential.