CS6.201 - INTRODUCTION TO SOFTWARE SYSTEMS
Assignment 3 – HTML, CSS, JavaScript
Due Date: 15/4/2025 8:00 PM (Tuesday)
Total Marks: 50 - Duration: 3 Weeks

NOTE: This assignment is an individual submission, not a group activity. Evaluation will be conducted based on a fixed grading rubric (syntax, logic, input and output) and the marks are divided as per prescribed weightage in respective question. Inputs/output should fit the criteria mentioned in respective questions. Unless it is specified, all input/output criteria are open to interpretation. All questions in the assignment are self-explanatory. Do not reach us for any clarifications. If you are answering a question based on a certain assumption, please feel free to mention it as you code comment(s).

Q1: Create a personal website and host it on github.io pages. Please ensure that you include the following items as part of your personal home page. **(15 Marks)**

- About yourself in a paragraph
- Include your profile picture along with some local pictures from your birthplace
- Write about your education background, schools you studied, achievements
- Write the technical skills you have based on your level of expertise
- Include a CV as a PDF in a hyperlink

Q2: Write a JavaScript function as part of your personal github.io that can capture all click events and page views performed by a user across HTML tags and CSS objects. Print the output on console as follows for the objects created on your personal github.io page: **(15 Marks)**

Timestamp_of_click , type of event (click/view) , event object (drop-down,image, text etc.)

- About yourself in a paragraph
- Include your profile picture along with some local pictures from your birthplace
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Q3: Using JavaScript, read the text input using a Text box with more than 10000 words. Perform the following tasks and print output from the same web page. Implement this as part of your **personal github.io page**.

- Calculate and display number of letters, words, spaces, newlines and special symbols **(5 Marks)**
- Tokenize the text and Print count of pronouns group by pronouns **(5 Marks)**
- Tokenize the text and Print count of prepositions group by prepositions **(5 Marks)**
- Tokenize the text and Print count of indefinite articles group by article **(5 Marks)**

Submission Instructions:

1. Submissions are accepted via **Moodle** only.
2. Submit your github.io page in a txt file along with a README.txt to mention your assumptions, execution instructions or anything else in the ZIP. If you are using any LLM for this task, please declare your usage with all required details here - https://forms.office.com/r/Mg97epP413 If you are found not mentioning about your LLM usage despite using one, you will be awarded '0'.
3. You will be awarded '0' if your submission is found to be plagiarized with other submissions.

Happy -_- Programming!