

CSE 216 – Programming Abstractions (Fall 2019)

Programming Assignment # 5

Submission deadline: Wednesday 04 December, 11:59 PM

In this assignment, you will create JavaScript/HTML based webpages with certain considerations. The assignment has two questions together comprising 40 points.

Question 1. Read, display and summarize text data (20 pts)

- A. Create a HTML page with necessary JavaScript that reads text data stored in a local file and displays this data in a **TABULAR format** in a webpage. A started code (`csvreader.html`) is provided that reads the text file and displays text in the browser. The text file to be used for this exercise has name `life-expectancy-data.txt` and it is provided together with this assignment. The text file has information pertaining to 5 columns - "Income", "Life Expectancy", "Population", "Country", "Year". In total, there are 1540 total records. The first few rows are shown here: (8 pts)

Income	Life Expectancy	Population	Country	Year
815	34.05	351014	Australia	1800
1314	39	645526	Canada	1800
985	32	321675013	China	1800
864	32.2	345043	Cuba	1800
1244	36.5731262	977662	Finland	1800

- B. Following the main table, create a summary table that shows summary statistics for each country. The summary statistics should be calculated by a JavaScript function. There are in total 19 countries. The summary statistics should show the mean values of following parameters for each country: "Income", "Life Expectancy" and "Population". The mean values for some of the countries are shown below: (12 pts)

Country	Mean Income	Mean Life Expectancy	Mean Population
Australia	21989.92	69.47	13071980.46
Canada	22812.98	70.03	21336515.79
China	2498.12	56.45	886011894.50

Submission:

Write your code along with necessary HTML and JavaScript in the `texttable.html` file.

Question 2. Generic incident report form**(20 pts)**

Create a HTML form that reports a generic incidence. All the fields are mandatory except Address Line 2. You are free to use your creativity to make this form (it is not necessary to follow exact UI, for example, there could be one single text box for phone number instead of three different boxes). The country is selectable from given options. All dates, times and phone numbers should follow standard format. Use JavaScript for form checking after clicking the submit button. The information submitted in the form should be displayed (and form should be hidden) after correct submission. You can enforce your own constraints on the text length, type of data allowed etc. in various text fields.

(Report Abuse is not a part of this form).

Generic Incident Report Template

Injured Person's Name

Age

Address

Street Address

Address Line 2

City

State / Province / Region

Postal / Zip Code

Country

Injured Person's Phone Number

 - -

####

Name of family member notified

Phone Number of family number notified

 - -

####

Name of person supervising activity

Title of person supervising activity

Name of HR filling out this report

Accident Details

Date of accident

 / /

MM DD YYYY

Time of accident

 : :

HH MM SS AM/PM

Impact of incident on the employee

Detailed Description of Accident

Detailed Description of Injury/Illness

Medical action/aid provided

Details of any other assistance provided (ambulance, police, fire engine etc.)

[Report Abuse](#)

Submission:

Write your code along with necessary HTML and JavaScript in the `incidentreport.html` file.

Assignment submission: Zip and submit only the following files along with necessary JavaScript:

- `texttable.html`
- `incidentreport.html`
- `life-expectancy-data.txt`

Assignment Evaluation: The graduate TA will download and run your program and it will be checked for correctness using a few use-cases. If required, instructor/TA will contact you for clarifications.

Note:

If your code does not compile, it will not be graded.

Late submissions will not be accepted under any circumstances.

To be safe, always, ALWAYS, prepare to submit ahead of time, not exactly AT last moment!

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