SRT621 – Winter 2022

Lab #4

Worth: 4% of final grade [4 marks]

Assignment Due: Refer to the deadline on learn.Senecacollege.ca

Submission Instructions ← <mark>THHIS IS IMPORTANT</mark>

Please zip all your submission files and name the zip file as it follows:
<mark>YourName_Lab4.zip</mark>

The professor can call any student for a one-on-one interview to explain the code and answer some questions about the code. Failing to participate in this interview will result in a grade of zero in the assignment.

Using 3$^{rd}$ party applications to generate the codes will result in losing marks.

<mark>You are provided with a html file called Lab4.html. Answer to each question will fill in a part of this HTML file. You will have to create and submit the appropriate JS files.</mark>

Pay extra Attention to the highlighted texts!

## Question 1 [1 mark]

- Create q1.js and inside create a function and call it <mark>time_remaining</mark>.
- This function calculates the remaining months, weeks, days, hours and minutes until the next year (Dec 31 2022) and shows the results in the tags with corresponding ids (e.g., remaining days must be shown in the <div id="days"></div>
- Call the function in the JS file!

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- You do not need to change the HTML file.
- To be submitted: q1.js

## Question 2 [1.5 mark]

- Create q2.js and inside write a function and call it roll_dices.
- This function simulates rolling two dices. The function needs no input parameters but outputs two random numbers between 1 ~ 6. [0.5 mark]
- The function then sets the appropriate class name to the div tags (id="dice1" & id="dice2") to illustrate the correct dice side. [0.1 mark]
- Finally call the function.

- You do not need to change the HTML file code.
- CSS rules are provided so no need to write any CSS code.
- To be submitted: q2.js

## Question 3 [2.5 mark]

- Create q3.js and inside create an object constructor functions to simulate a person's information which has the following properties:
  - o Given name
  - o Surname
  - o Date of Birth
  - o Gender
  - o Number of Children
  - o Child's information
    - ▪ Name
    - ▪ Date of birth
    - ▪ Gender
- Add the following methods to the object constructor
  - o age → calculates the age of the person and prints it
  - o childAge → calculates the age of the child and prints it
- Create an instance of the object by calling the constructor.
- Add a new property to the object called hasPet and set its value to false. (this property must be added outside of the constructor function.)
- Update the contents of the div tag with id="q3" to show the object's information in the following format:
  - o Property name : property value (i.e., Given Name: John)
- Make the property names' color different from the property values' colors.

To be submitted: q3.js