

BTI225 Midterm Test (Version A)

Total: 25 marks

This test will be **available**: **Friday February 25, 2022 @8:00Am – Saturday February 26, 2022, @8:00am.**

Time limit: 24 hours.

It is an open-resource test. You can refer to course materials on blackboard, or internet. However, you CANNOT communicate with others. It is an INDIVIDUAL test. You need to work on your own and should not discuss it with others, or copy from others, or distribute your work to others.

SENECA'S ACADEMIC HONESTY POLICY:

As a Seneca student, you must conduct yourself in an honest and trustworthy manner in all aspects of your academic career. A dishonest attempt to obtain an academic advantage is considered an offense, and will not be tolerated by the College.

Instructions: This is a computer-based open-resourced test. You are going to write a JavaScript program (name it **mid_test.js**) and an HTML file (name it **mid_test.html**). See specifications and requirements below.

Submission: zip both files (**mid_test.js** and **mid_test.html**) and support files (e.g., **Seneca_logo.svg** and its corresponding **folder** structure) into **mid_test.zip**.

Note: use file extension .ZIP, not RAR or other file formats.

Submit **mid_test.zip** on Blackboard. Submission will be closed when the class finishes. Please set enough time for submission. **No email submission or other submission will be accepted.**

Part I: JavaScript. [10 marks]

Q1. The following table is part of the list of US presidents with the years they took the office and left the office. Using JavaScript, implement the following task:

Task 1:

- Using the data in the table, define each president as an object (hard code the objects)
- Store the list of presidents into an array of objects, each object is a president.

Task 2:

Write a JavaScript function, name it **searchPresident(inputName)**, to complete the following:

[10 marks]

- The function takes one parameter (**inputName**), which represents a name. **inputName** could be a first name, last name, or part of the name.
- The function searches the list for the name (**inputName**). If found, the function returns the year(s) the president took and left office. If found multiple results, the function returns all. If not found, the function returns information of not in the list.

Refer to the sample run and output for the return information format.

- It is possible and acceptable if the parameter is only part of either first name or last name and your function returns the full name and corresponding information. e.g, if the parameter

is “Ron”, your function reports “Ronald Reagan”..., refer to the sample runs.

- Also, your program should ignore the case of the parameter. E.g, if the parameter is “Ron” or “ron”, your function should be able to report “Ronald Reagan,....”

US President	Took Office	Left Office
Ronald Reagan	1981	1989
George Bush	1989	1993
Bill Clinton	1993	2001
George Bush	2001	2009

Test your function as follows. (include the following statements exactly the way as is, except replacing my name with yours, see below.)

```
console.log(searchPresident("Ron"));
```

```
console.log(searchPresident("ron"));
```

```
console.log(searchPresident("George"));
```

```
console.log(searchPresident("Sunny")); // Change "Sunny" to your name
```

Sample output:

President Ronald Reagan

took office in year 1981

left office in year 1989

President Ronald Reagan

took office in year 1981

left office in year 1989

President George Bush

took office in year 1989

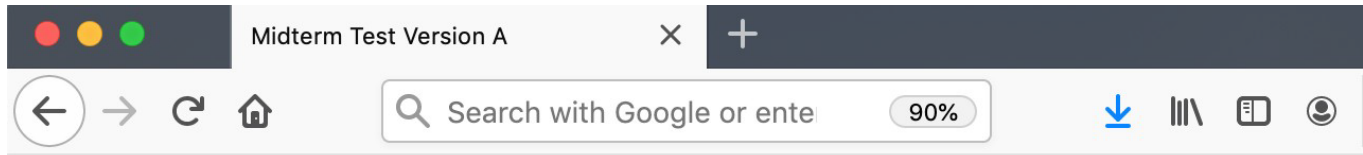
left office in year 1993

President George Bush

took office in year 2001

left office in year 2009

Sunny hasn't been a US president yet. Maybe in the future.

Part II: HTML5.**Q2. Write HTML5 code to render the following screenshot. Specifications follow in next page.**

Contents

- Section 1
 - 1.1 Background
 - 1.2 History
 - 1.3 The Problem
- [Section 2](#)
- Section 3

Section 1

The following is an image link

Seneca

The following is about the anchor link

click the above "Section 2", jump to the following section of "Section 2" in the **same** page

it would be a long long long page ...

you can resize the window to smaller size to test the anchor link

Section 2

content of Section 2

Section 3

The following is a Table

Table Caption

head1	head2	head3
a11	a12	a13
a21	a22	
a31	a32	

1. The page has a title: "Midterm Test Version A". [0.5 marks]
2. "Contents" in Heading 2 [0.5 marks]
3. Section 1, 2, 3 and 1.1 Background, etc are defined as nested list as screenshot. [3 marks]
4. Section 1 after the horizontal line is in Heading 3. [0.5 marks]
5. "The following is an image link" is a paragraph [0.5 marks]
6. Seneca College logo is an image link. Click it will open Seneca College homepage in a new tab.
Download the logo from Blackboard and save it under the sub-directory "img". The logo will be displayed as 60 pixels wide, 20 pixels high. If seneca logo is not able to be displayed, the user will see the text "Image of Seneca College". You need to place your files as the following file structure: [3 marks]

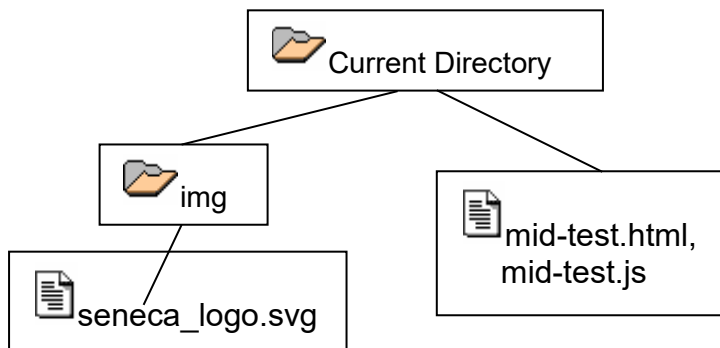


Figure file structure for "Image Link"

7. Render the following text as screenshot. Note that, above the horizontal line, "Section 2" is in Heading 3.
"content of Section 2" is a paragraph.
Click the above "Section 2" in the contents will jump to this place. [2 marks]
Please ask me if you are not sure about this.
8. The table after horizontal line has border 2 pixels. [4 marks]
"Table Caption" is defined as table caption.
"head1", "head2", "head3" are table headers,
9. Basic HTML5 syntax [1 mark]

Note:

If some features of the page were not specified, you determine the proper values. If not sure, please ask me.