Due date

Thursday March 14, 2019 – 11:00PM

Grade value: 5% of your final course grade

Objective

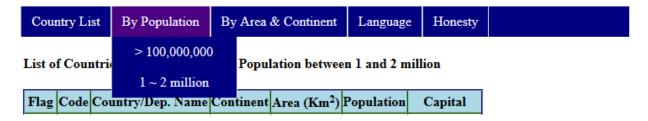
Practise DOM/JavaScript coding, dynamically adding image and populating HTML table using DOM (rather than innerHTML property), and updating the text in HTML element using the innerHTML property.

Specifications

To begin, download **assign4-template.zip** file from **My.Seneca/Blackboard** and unpack the zip file. In this assignment, you'll build up a front-end web app which queries data from a given array of Country objects, named **countries**, and show the results on a web page using HTML DOM API. The array of Country objects is provided in the **js/a4-country-data.js** file and all countries' flag images are stored under the **flags** folder. And your tasks are to update JavaScript code in the **myscript.js** file according to the instructions below.

Open the assignment4.html file in a browser, a 2-level menu will show up on the page,

WEB222 Assignment 4 - DOM Manipulation



Your tasks are that when the menu items are clicked, appropriate country data should be populated into the HTML table as specified.

BASIC REQUIREMENTS

- 1. You should not change the given files assignment4.html, a4-country-data.js or image files under flags folder. The myscript.js and honesty.html are the two files that you are allowed to update. Note: you should create event handlers to the menu items (the assignment4.html document's unorder list id="menu_??"> items) using JavaScript code inside the myscript.js file. When one of these items is clicked, a corresponding function should be called to change the subtitle and populate the country table.
- 2. You **must not** use the DOM/Node innerHTML property to populate HTML tables, including adding images. However, using innerHTML property to update the text of the "**subtitle**" (<h4 id="subtitle">List of Countries and Dependencies</h4>) on the page is appropriate.
- 3. When running your web app on a browser, no errors should occur on the browser web console.

DETAILED INSTRUCTIONS

The Country List item

When the **Country List** item is clicked, the web page **assignment4.html** will be (re)loaded into the browser. Complete the following tasks upon the page is loaded:

- Update the text of the "subtitle" (<h4 id="subtitle">List of Countries and Dependencies</h4>) to "List of Countries and Dependencies" on the page.
- 2. Populate the HTML table with the data including all countries. The results should be as the screenshot below. Click the screenshot to see the full-screen image.

ry List By Population By Area & Continent

List of Countries and Dependencies

Flag	Code	Country/Dep. Name	Continent	Area (Km²)	Population	Capital
*	AF	Afghanistan	Asia	652230	35530081	Kabul
	AL	Albania	Europe	28748	2930187	Tirana
Œ	DZ	Algeria	Africa	2381741	41318142	Algiers
8	AD	Andorra	Europe	468	76965	Andorra la Vella
શ	AO	Angola	Africa	1246700	29784193	Luanda
	ΑI	Anguilla	Americas	91	14909	The Valley
	AQ	Antarctica	Antarctica	14000000		Antarctica
*	AG	Antigua and Barbuda	Americas	442	102012	St. John's
*	AR	Argentina	Americas	2780400	44271041	Buenos Aires
	AM	Armenia	Asia	29743	2930450	Yerevan
		Aruba	Americas	180	105264	Oranjestad
#	AU	Australia	Oceania	7692024	24450561	Canberra
	AT	Austria	Europe	83871	8735453	Vienna
(•	AZ	Azerbaijan	Asia	86600	9827589	Baku

3. Note: the flag images are provided under the **flags** folder. The flag image of each country has the file name which is same as the code of the country, e.g. Canada's **ccTLD** (**country code** / top-level domain) is "**CA**", and Canada's flag image is named "**ca.png**" under the flags folder.

The By Population, "> 100,000,000" item

- 1. Update the text of the "subtitle" to "List of Countries and Dependencies Population greater than 100 million" on the page.
- 2. Populate the HTML table with the data including countries whose population is greater than 100 million. The results should be as the screenshot below. Click the screenshot to see the full-screen image.

Cour	ntry Li	ist By Population B	By Area & C	Continent	Language	Honesty	
List of	st of Countries and Dependencies - Population greater than 100 million <						
Flag	Code	Country/Dep. Name	Continent	Area (Km²)	Population	Capital	
	BD	Bangladesh	Asia	147570	164669751	Dhaka	
♦	BR	Brazil	Americas	8515767	209288278	Brasília	
*)	CN	China	Asia	9640011	1409517397	Beijing	
0	ET	Ethiopia	Africa	1104300	104957438	Addis Ababa	
	IN	India	Asia	3287263	1339180127	New Delhi	
	ID	Indonesia	Asia	1910931	263991379	Jakarta	
•	JР	Japan	Asia	377930	127484450	Tokyo	
9	MX	Mexico	Americas	1964375	129163276	Mexico City	
	NG	Nigeria	Africa	923768	190886311	Abuja	
C	PK	Pakistan	Asia	881912	197015955	Islamabad	
	PH	Philippines	Asia	300000	104918090	Manila	
	RU	Russian Federation	Europe	17098246	143989754	Moscow	
	US	United States of America	Americas	9525067	324459463	Washington DC	
		World	_	510072000	7550262101		

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The By Population, "1 ~ 2 million" item

- 1. Update the text of the "subtitle" to "List of Countries and Dependencies Population between 1 and 2 million" on the page.
- 2. Populate the HTML table with the data including countries whose population is between 1 and 2 million. The results should be as the screenshot below. Click the screenshot to see the full-screen image.

Cou	ntry Li	st By Population	By Area	& Continent	Languag	e Honesty		
List o	ist of Countries and Dependencies - Population between 1 and 2 million							
Flag	Code	Country/Dep. Name	Continent	Area (Km²)	Population	Capital		
	вн	Bahrain	Asia	765	1492584	Manama		
*	CY	Cyprus	Europe	9251	1179551	Nicosia		
王	GQ	Equatorial Guinea	Africa	28051	1267689	Malabo		
	EE	Estonia	Europe	45227	1309632	Tallinn		
	GW	Guinea-Bissau	Africa	36125	1861283	Bissau		
	LV	Latvia	Europe	64559	1949670	Riga		
	MU	Mauritius	Africa	2040	1265138	Port Louis		
~ ()	SZ	Swaziland	Africa	17364	1367254	Mbabane		
→	TL	Timor-Leste	Asia	n/a	1296311	Dili		
	TT	Trinidad and Tobago	Americas	5130	1369125	Port of Spain		
	© 2017 Student (your) Name							

The By Area & Continent, "1 million km2, Americas" item

- 1. Update the text of the "subtitle" to "List of Countries and Dependencies Area greater than 1 million Km2, Americas" on the page.
- 2. Populate the HTML table with the data including countries whose area is greater than 1 million km², and the countries are in **Americas**. The results should be as the screenshot below. Click the screenshot to see the full-screen image.

Cou	ntry Li	st By Population By Are	a & Contin	ent Langu	age Hon	esty		
List o	f Cour	ntries and Dependencies - Are	a greater t	han 1 millioi	ı Km², Ame	ericas 📛		
Flag	Code	Country/Dep. Name	Continent	Area (Km²)	Population	Capital		
,	AR	Argentina	Americas	2780400	44271041	Buenos Aires		
	во	Bolivia (Plurinational State of)	Americas	1098581	11051600	La Paz		
♦	BR	Brazil	Americas	8515767	209288278	Brasília		
÷	CA	Canada	Americas	9984670	36624199	Ottawa		
	со	Colombia	Americas	1141748	49065615	Bogotá		
	GL	Greenland	Americas	2166086	56480	Nuuk		
4	MX	Mexico	Americas	1964375	129163276	Mexico City		
Ш	PE	Peru	Americas	1285216	32165485	Lima		
	US	United States of America	Americas	9525067	324459463	Washington DC		
	© 2017 Student (your) Name							

The By Area & Continent, "All size, Asia" item

- 1. Update the text of the "subtitle" to "List of Countries and Dependencies All countries in Asia" on the page.
- 2. Populate the HTML table with the data including all Asia countries. The results should be as the screenshot below. Click the screenshot to see the full-screen image.

Country List By Population By Area & Continent Honesty Language

List of Countries and Dependencies - All countries in Asia



Flag	Code	Country/Dep. Name	Continent	Area (Km²)	Population	Capital
*	AF	Afghanistan	Asia	652230	35530081	Kabul
	AM	Armenia	Asia	29743	2930450	Yerevan
0	ΑZ	Azerbaijan	Asia	86600	9827589	Baku
	ВН	Bahrain	Asia	765	1492584	Manama
	BD	Bangladesh	Asia	147570	164669751	Dhaka
A	вт	Bhutan	Asia	38394	807610	Thimphu
-	BN	Brunei Darussalam	Asia	5765	428697	Bandar Seri Begawan
Adda	KH	Cambodia	Asia	181035	16005373	Phnom Penh
*)	CN	China	Asia	9640011	1409517397	Beijing
: :	GE	Georgia	Asia	69700	3912061	Tbilisi
	HK	Hong Kong	Asia	2755	7364883	Hong Kong
	IN	India	Asia	3287263	1339180127	New Delhi
	ID	Indonesia	Asia	1910931	263991379	Jakarta
Ф	IR	Iran (Islamic Republic of)	Asia	1648195	81162788	Tehran
غينر	IQ	Iraq	Asia	438317	38274618	Baghdad
¢	IL	Israel	Asia	28292	8321570	Jerusalem

The Language, English item

Same as the **Country List** item

The **Language**, ? item

Select and implement only one language from **Arabic**, **Chinese**, **French**, **Hindi**, **Korean**, **Japanese**, and **Russian**. Complete the following tasks once the item is clicked:

- 1. Update the text of the "subtitle" to fit selected language on the page, e.g. "List of Countries and Dependencies - Country / Dep. Name in Chinese (中文)" if Chinese is selected.
- 2. Populate the HTML table with the data including all countries, and show the "Country/Dep. Name" in the selected language. The results, e.g. "中文 (Chinese)"

selected, should be as the screenshot below. Click the screenshot to see the full-screen image.

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Country List By Population By Area & Contin		nent Lar	iguage Ho	nesty							
List o	List of Countries and Dependencies – Country/Dep. Name in Chinese (中文)										
Flag	Code	Country/De	ep. Name	Continent	Area (Km²)	Population	Capital				
*	AF	阿富汗		Asia	652230	35530081	Kabul				
*	AL	阿尔巴尼亚		Europe	28748	2930187	Tirana				
e	DZ	阿尔及利亚		Africa	2381741	41318142	Algiers				
9	AD	安道尔		Europe	468	76965	Andorra la Vella				
Q	AO	安哥拉		Africa	1246700	29784193	Luanda				
	ΑI	安圭拉		Americas	91	14909	The Valley				
	AQ	南极洲		Antarctica	14000000		Antarctica				
*	AG	安提瓜和巴布达		Americas	442	102012	St. John's				
*	AR	阿根廷		Americas	2780400	44271041	Buenos Aires				
	AM	亚美尼亚		Asia	29743	2930450	Yerevan				
	AW	阿鲁巴		Americas	180	105264	Oranjestad				
#	AU	澳大利亚		Oceania	7692024	24450561	Canberra				
	AT	奥地利		Europe	83871	8735453	Vienna				
•	ΑZ	阿塞拜疆		Asia	86600	9827589	Baku				
	BS	巴哈马		Americas	13943	395361	Nassau				

The "Honesty" page - honesty.html

- Add date and your name in the provided places to complete the honesty declarations.
- Update the footer of each page with your full name.

Assignment submission

 Compact all your files including all directory structures into a zip file named assignment4.zip. Submit the zip file to the Blackboard (My.Seneca) before the due date.

Important note

- Using the DOM/Node innerHTML property to add images to the DOM or populate HTML tables will result in 100% penalty for the grade of your assignment.
- NO LATE SUBMISSIONS for assignments. Late assignment submissions will not be accepted and will receive a grade of zero (0).
- After the end (11:00pm) of the due date, the assignment submission link on the Blackboard will no longer available.