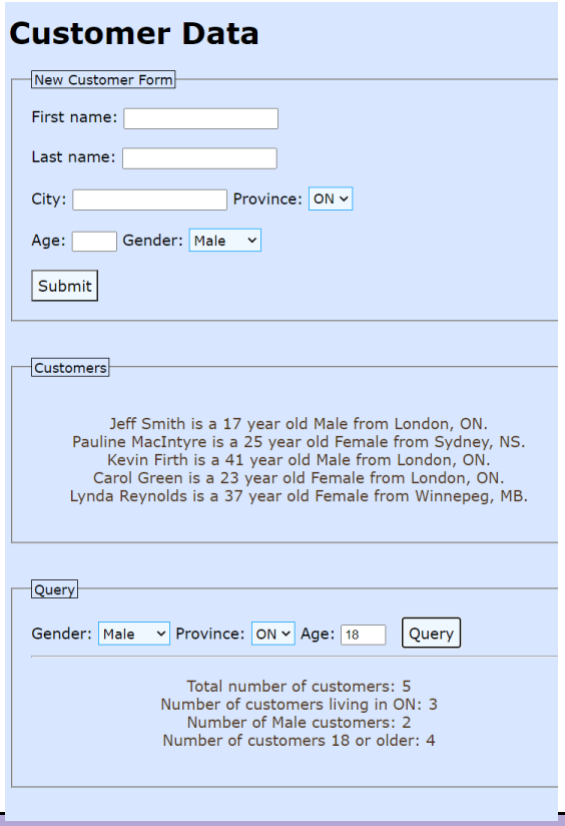
Course:	INFO-1272, Javascript I
Professor:	Krutarth Patel
Project:	Final Test, Part B
Due Date:	December 14th @11:59pm
Submission Folder:	Final Exam Part B - Coding
Student Name:	

Test Description

Create a web page which collects customer data from a form. When a customer clicks "Submit", their data is stored in a Customer object, and then stored in an array. Once the data is collected and stored in an array, a user may click "Query" which will report statistics about the Customer data based on some filters. *See sample output on the next page*.



Instructions:

1. Start with the starter file attached to the submission Folder "FinalTest.txt". Re-save the file using your first name followed by an underscore. For example, "Krutarth_FinalTest.html".

2. Declare an empty global array called **customerArray** to store Customer objects.

3. Write a constructor for a **Customer** object, using the properties and methods shown here.

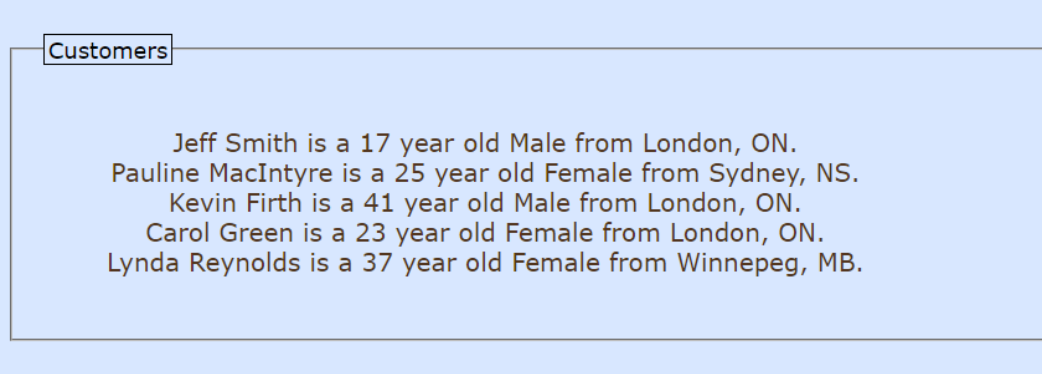
Customer	
First Name	String
Last Name	String
City	String
Province	String
Age	Number
Gender	String
toString()	Method - returns a string outputting this customer's details in this format "[Full Name] is a [Age] year old [Gender] from [City], [Province]."

4. Create a function that creates the 5 sample customers (below) and adds them to the customerArray. This function should be called when the page loads.

Customer Data:

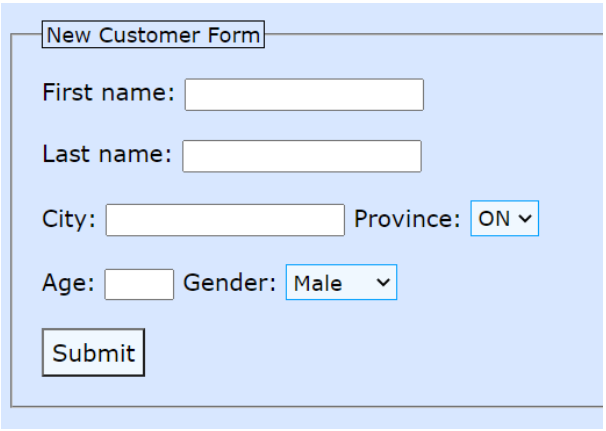
First: Jeff Last: Smith City: London Province: ON Age: 17 Gender: Male	First: Pauline Last: MacIntyre City: Sydney Province: NS Age: 25 Gender: Female	First: Kevin Last: Firth City: London Province: ON Age: 41 Gender: Male	First: Carol Last: Green City: London Province: ON Age: 23 Gender: Female	First: Lynda Last: Reynolds City: Winnipeg Province: MB Age: 37 Gender: Female

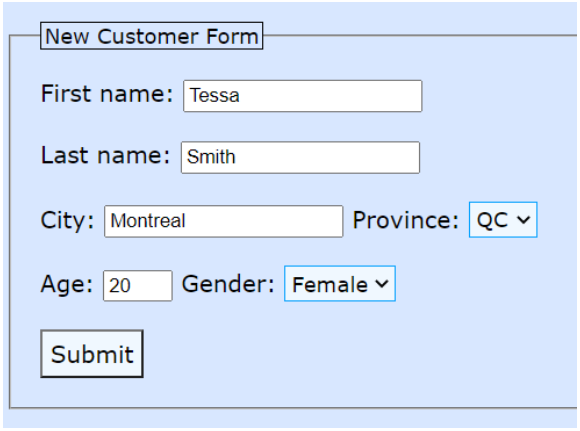
5. Create a function that displays customers to the "Customers" section of the web page.
Loop through the array calling the **toString()** method for each customer and output the strings returned to this section.



6. Write a function on called registerCustomer() which will do the following:
   - create a Customer object and populate the object with the input collected from the form input
   - add the Customer object tocustomerArray
   - clear all the input, to get the form ready for new data entry
   - call the function you made to output customers to the web page

   Use an event listener to call this function for the button "Submit".

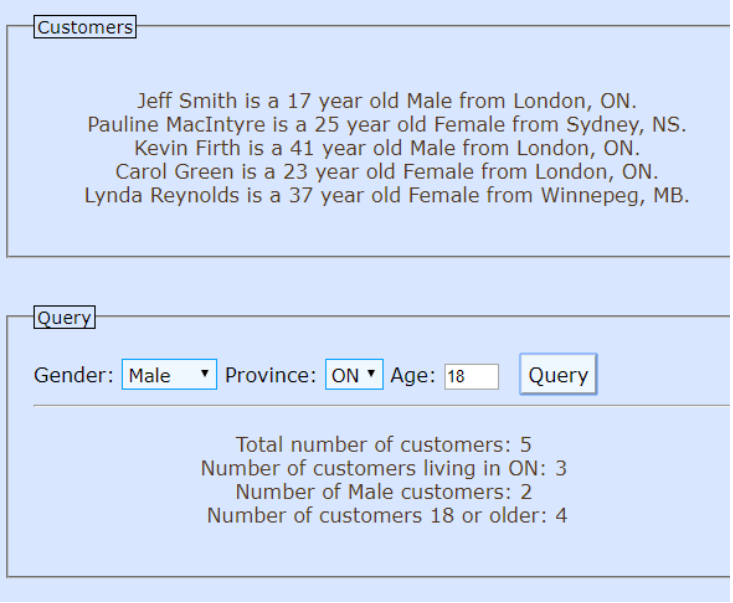


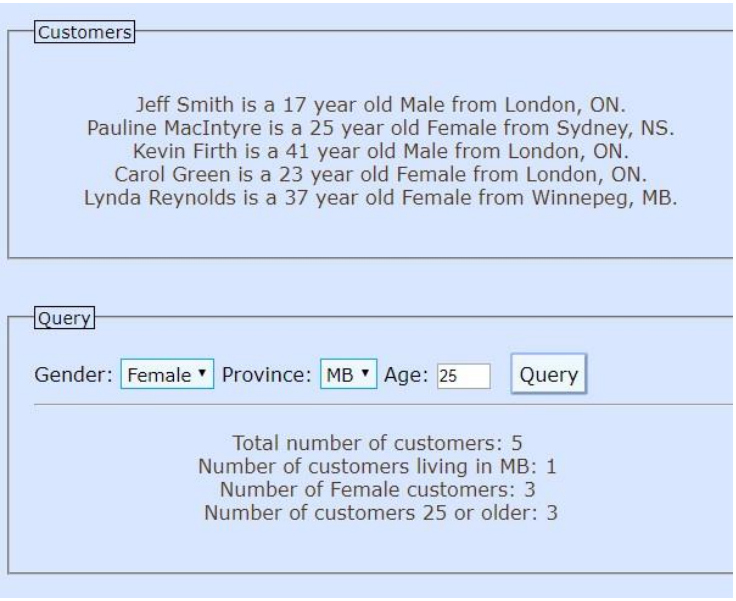


7. Write a function called queryData() which will search the customerArray and output the following information based on the filter fields:
   - Total number of customers
   - Total number of customers living in [Selected Province]
   - Total number of customers matching [Selected Gender]
   - Total number of customers aged [Entered Age] and older

   Use an event listener to call this function for the button "Query".

Note: Each statistic being output is based off of 1 filter each. You are not tracking the number of customers that match all filters.





Submission: Zip up all lab files and submit to "*Final Exam Part B (Coding) Fall 2022*"

Remember to submit your own work. Any sharing of code results in a mark of zero for all offending par es.

How will my lab be marked?

Marks	What are Marks Awarded For?
1	**Comments/Coding Style** ● Page documentation including name, date, purpose ● Script comments at the top of each function and process ● Correct use of indenting, whitespace, braces (Code should be readable)
1	**No Errors On Load (Additionally too many errors could result in a zero)**
	Web page runs and meets the lab requirements
1	**Global Declaration** ● A global array is created called customerArray
5	**function Customer()** ● Constructor for a Customer object ● 5 sample customers created on startup
5	**function registerCustomer()** ● gets all input from within the form ● creates a Customer object, populated with the input collected from the form input ● adds the Customer object to customerArray ● clears all the input ● displays customer list
8	**function queryData()** ● Finds and outputs total number of customers ● Finds and outputs the number of customers living in province ● Finds and outputs the number of customers based on gender ● Finds and outputs the number of customers based on age
4	**Output** ● Output matches the sample output ● Display customer list having called the toString for each customer
25	**Total**