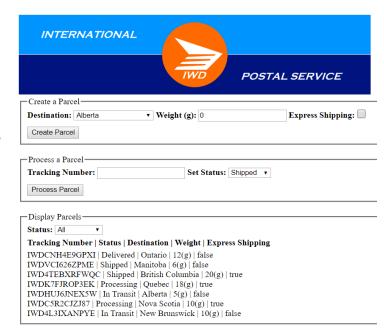
Course:	INFO1232, Javascript I
Professor:	Daniel Malnati
Project:	Lab 7
Due Date:	Friday, April 10th @ 11:59 pm
Submitting:	FOL Submissions folder, Lab 7
Student Name:	

Lab Description

- Download "StarterCode_Lab7" from the FOL Submission Folder "Lab 7", rename the html file with your first name followed by an underscore and then "Lab7". For example, "Daniel Lab7.html".
- 2. Your Web Page will serve as an internal tool for the *IWD Postal Service*. Where the user can view all parcels in the system, create new parcels, and process parcels.
 - The user will be able to view a filtered list of parcels using a dropdown list filtering by parcel status.
 - The user will be able to input a tracking number and modify the parcel associated with that tracking number using a dropdown list and button.
 - The user will be able to create new parcels as well. For newly created parcels: Tracking numbers are generated randomly, and the parcel status is set to *Processing*.
- **3.** Create a constructor for the Parcel object, with the following parameters:

Parcel				
trackingNumber	String value – used to identify a parcel			
status	String value – parcels current step in the mailing process			
destination	String value – destination for parcel			
weight	Float value – weight of parcel, used for cost of shipping calcualtion			
express	Boolean value – an optional shipping option to ensure a speedy delivery at an extra cost, used for cost of shipping calculation			

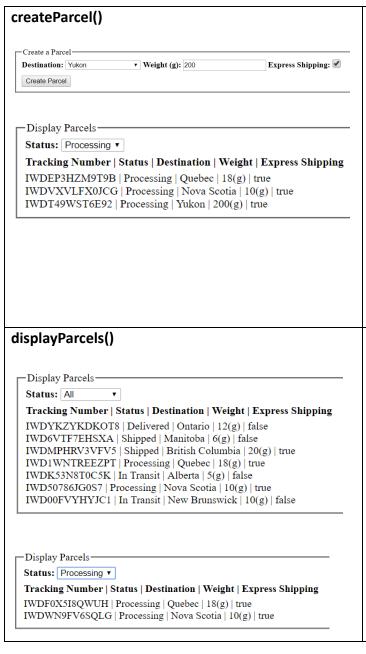
4. Create an array to store the parcel objects in **global** scope.



5. In Global scope, create some parcel objects and store them in the **global** parcels array. (Note: You can call the generateTrackingNumber function instead of hardcoding the tracking numbers. Whichever you prefer.)

Some sample Parcel data						
trackingNumber	status	destination	weight	express		
IWD000000001	Processing	Ontario	12	true		
IWD0000000002	Shipped	Alberta	34	true		
IWD0000000003	In Transit	Manitoba	56	false		
IWD000000004	Delivered	Quebec	78	false		

6. Create and Implement the following functionality for each of these functions:



This function is triggered when the user clicks the "Create Parcel" button. This will create a new parcel object and add it to global array of parcels. For newly created parcels: Tracking numbers are generated randomly, and the parcel status is set to Processing.

In your function:

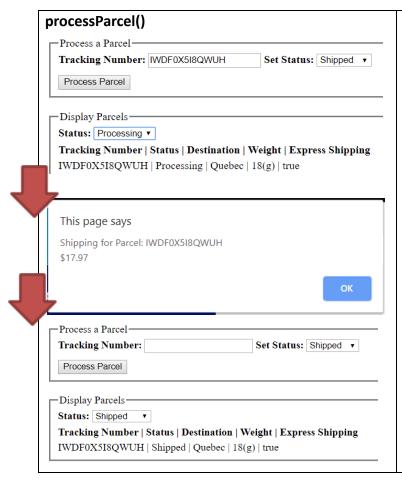
- Use the generateTrackingNumber() function to get a tracking number for the Parcel you're creating.
- Status will be set to "Processing".
- Get the values of the 3 elements in the form.
 (get checked, from the checkbox)
- Call the Parcel Constructor and pass it the 5 values to create the Parcel Object.
- Add this object to the parcels **global** array.
- Call the displayParcels() function.

This function will be called when the page loads as well as when the createParcel() and processParcel() functions are called.

This function will ouput the array of parcels, but will only output the parcels that match the status selected in the dropdown box. If "All" is selected, just output the entire array of parcels.

In your function:

- Clear the contents already in the output div.
- Get the value from the status textbox.
- Ouput the global parcels array to the output div.
 - o If the value is "ALL", ouput all the parcels in the global array.
 - Otherwise, only output the parcels with the same status as the one selected.



This function will trigger when the user clicks the "Process Parcel" button.

Using the tracking number entered, find the parcel in the array with the matching number and use it for processing.

In your function:

- Get the values from the textbox and the dropdown
- Find the parcel in the array that matches the tracking number provided
 - o (Optional) If the parcel isn't found or no number was provided, alert the
- Assign the new status to the parcel's status property
- Calculate the Cost of shipping for this parcel:
 - o Flat rate of \$5
 - o Add \$10, If the parcel has Express Shipping.
 - o Add \$0.05 per gram(g) that the parcel weighs
 - o Apply Tax (13%)
- Alert the user with the Tracking Number and the cost of shipping. See sample output left
- Call the displayParcels() function.

Marks	What are Marks Awarded For?	Earned	
1	Comments		
	Page documentation including name, date, purpose		
	Script comments for each process		
1	No Errors		
	Page does not throw any errors on load		
2	Parcel Constructor		
	 Constructor uses 5 parameters to assign to object properties 		
	 Constructor is called and created objects are added to the global parcels array 		
3	Display Parcels		
	 Output is clean, and doesn't append to previously output data 		
	 Array outputs correctly, based on the selected status filter 		
	 This function is called, at the end of the createParcel() and processParcel() functions 		
2	2 Create Parcel		
	 generateTrackingNumber() is used for tracking numbers when creating new parcels from 		
	web page		
	 Parcel object is created and added to the array using the values from the web page 		
3	Process Parcel		
	Uses Tracking number correctly		
	Parcel Status Modified correctly		
	Shipping cost calculated and output correctly		
12	Total (Web page runs and meets the lab requirements)		