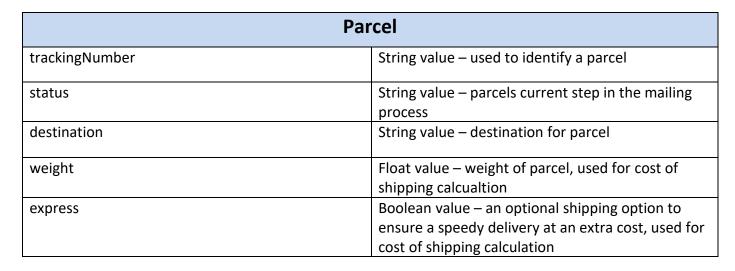
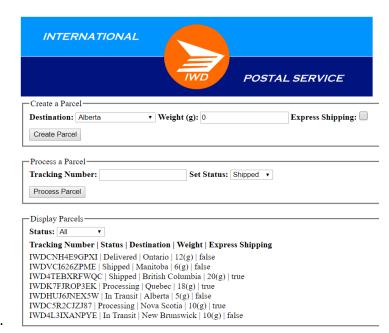
| Course: | INFO1232, Programming Fundamentals for Web Development | | |
|---------------|--|--|--|
| Professor: | Daniel Malnati | | |
| Project: | Lab 6 | | |
| Due Date: | Friday, March 22nd @ 2:00 pm | | |
| Submitting: | FOL Submissions folder, Lab 6 | | |
| Student Name: | | | |

Lab Description

- 1. Download "StarterCode_Lab6" from the FOL Submission Folder "Lab 6", rename the html file with your first name followed by an underscore and then "Lab6". For example, "Daniel Lab6.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:



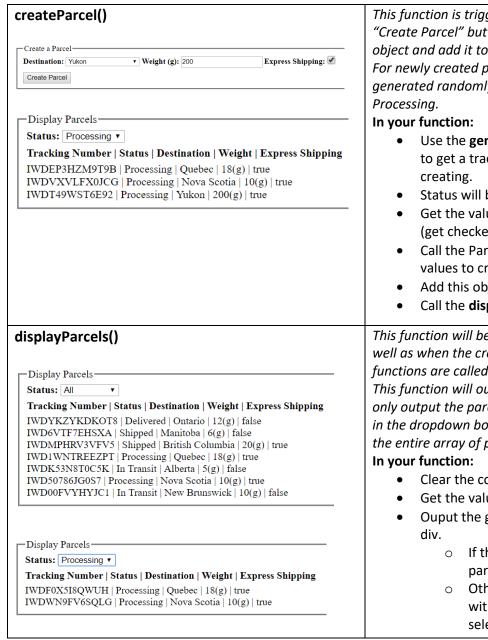
4. Create an array to store the parcel objects in **global** scope.



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 | | |
| IWD000000003 | In Transit | Manitoba | 56 | false | | |
| IWD000000004 | Delivered | Quebec | 78 | false | | |

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



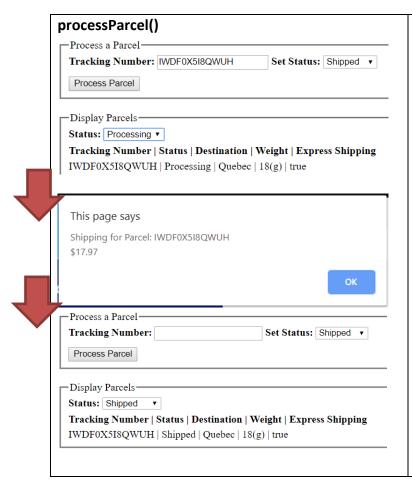
This function is triggered when the user clicks the "Create Parcel" button. This will create a new parcel object and add it to global array of parcels. For newly created parcels: Tracking numbers are generated randomly, and the parcel status is set to Processing.

- 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 outut 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.

- 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
 - (Optional) If the parcel isn't found or no number was provided, alert the user
- Assign the new status to the parcel's status property
- Calculate the Cost of shipping for this parcel:
 - o Flat rate of \$5
 - Add \$10, If the parcel has Express Shipping.
 - Add \$0.05 per gram(g) that the parcel weighs
 - 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 | 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) | | |
| | | | |