ITS 362
Mid-Term Exam
Spring 2021

1. (25 points) Create a JavaScript **object** based upon the provided UML class diagram. Each attribute has a value as follows.
   tweetId = "123456789"
   timestamp = "Wed, 19 Jan 2011 20:57:35 +0000"
   userId = "987654321"
   userName = "TwitterLover"
   tweetText = "what a nice sunny day!"

   Write a display() method in JavaScript to output all pieces of data in the object. Embed the javaScript in an HTML file. (20 points)

Tweet
-tweetId
-timestamp
-userId
-userName
-tweetText
+display()

2. (25 pts): Write a javaScript function called "calcDiscount" to apply a discount to a price of a product. Create a textbox to enter a price another textbox to enter a discount. Create a button to invoke a javaScript function that calculates a discount and displays the result in the document. Create a validation function that checks for no input (blank) textboxes before calculating a discount.

3. (25 points): Create an HTML document with one input text box. Write a javaScript function to change the background color, the font, fontsize and add a border of the textbox. Create a button in the HTML body to invoke the function.

4. (25 pts): Write an HTML file to display a text box where you enter text and add it to a list (you can use a <select> or other element to which you can add items). You can keep adding to the list as many items as you want. Create two functions using jquery, one called addItemToList to add the items to the list and a second called changeStyle which changes the border of the text box to dashed blue and the background color to aqua. Call the functions using buttons.