Homework #7: Form Validation
ECT 270, Prof. Robin Burke
Spring 2004
Due: 5/24/2004
Points: 50

Objective:
Use JavaScript to validate input on an HTML form.

What to do:

Park City Gazette subscription form
1. Obtain the files for this assignment from the course web site. You will be working with the file subscrip.htm. URL: http://josquin.cs.depaul.edu/~rburke/courses/s04/ect270/hwk/hwk7/hwk7.zip
   Put the files in a directory named "hw7"
2. Modify subscrip.htm to validate the contents of the form as follows.
3. Subscription price update
   a. We would like the form to update the "charge" field automatically.
   b. Set the "charge" field to be disabled so the user will not modify it.
   c. Write a function "calculateChargeAmount" that does the following:
      i. identifies which radio button has been pressed
      ii. determines what the total charges should be
      iii. updates the "charge" text field accordingly
   d. Add an event handler for each radio button that runs this function so that the subscription charges are always correct.
4. Name validation
   a. We would like form to be valid under the following conditions:
      i. the name field is not empty
      ii. the "name" field and the "cardname" fields are the same
      iii. one of the credit card options has been selected
      iv. the credit card number field contains a number
   b. Write a function "namesValid" that
      i. if the "name" field is empty, shows an alert, places the cursor in the name field, and returns false
      ii. if the "name" field doesn't match "cardname" field, shows a different alert, places the cursor in the "cardname" field, and return false.
      iii. if the strings match, return true
   c. Write a function "creditCardValid" that
      i. if no credit card has been selected, shows an alert, places focus on the credit card type list, and returns false
      ii. if the card number is not a number, shows an alert, places the cursor in the card number field and returns false.
   d. Write a "validForm" function that
      i. uses "namesValid" and "creditCardValid" to check the contents of the form
      e. Modify the form so that your validForm function is called when the form is submitted.
5. Upload your files and create a link from your main course page that points to subscrip.htm.

What to turn in:
- Submit the homework at the Course Web page dlweb.cs.depaul.edu.
- In the comment window write the URL address of your form page on students. Don't forget this step!
- Make a zip archive containing the hw7 directory. Submit the zip file using the Submit Homework application in the DL web site.
Hints

- Don't forget to FTP the files to the server when you make changes.
- Don't forget to set appropriate permissions: 644 for files, 755 for directories. Test your site. Inaccessible files are indistinguishable from missing ones.
- Step 3 is very similar to the example in tutorial 9 page 9.29-9.
- You can set the form's action method to point to the echo script to avoid activating your email application: http://josquin.cti.depaul.edu/cgi-bin/echo.pl
- To detect if the card number is a number or not, you can use the isNaN function (stands for "is not a number"). Example:

```javascript
if (isNaN(val))
    return false;
else
    return true;
```