Html CSS and JAVASCRIPT

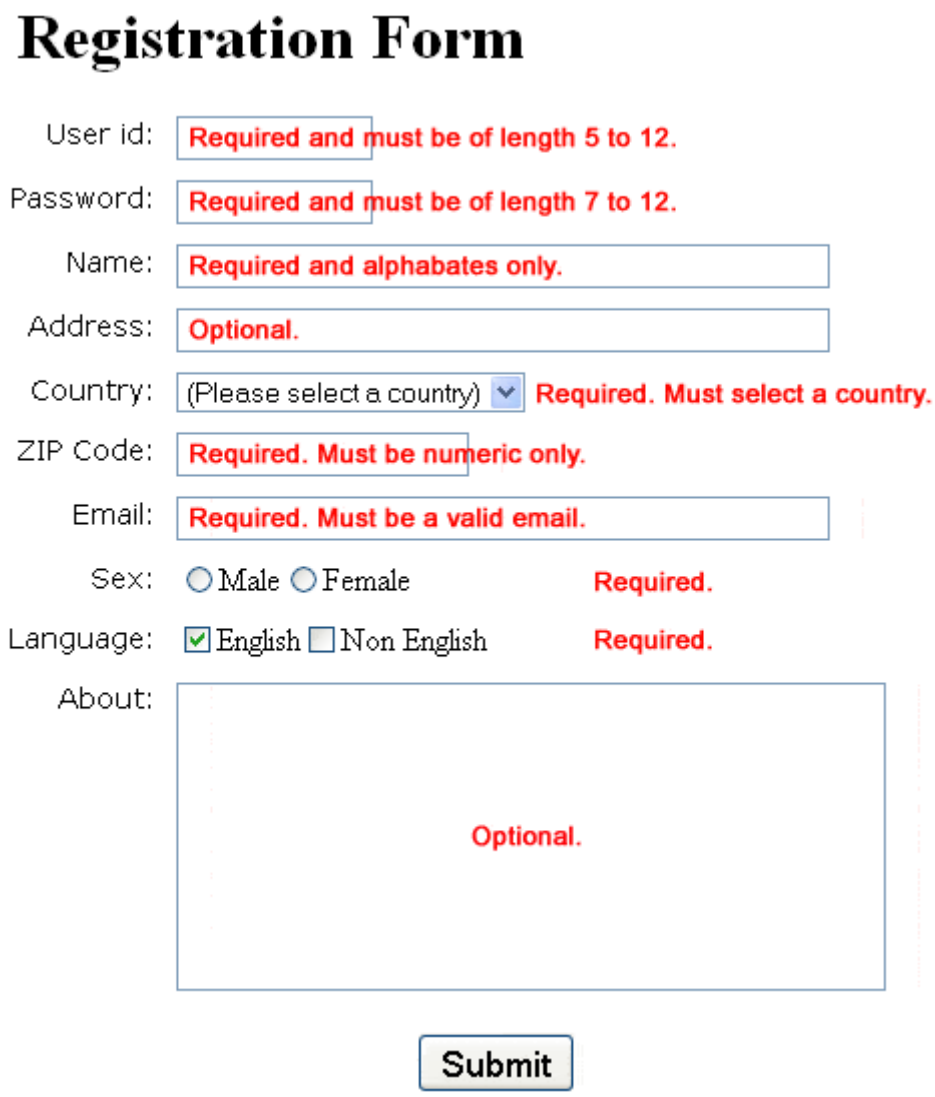
1. **Write a JavaScript program where the program takes a random integer between 1 to 10, the user is then prompted to input a guess number. If the user input matches with guess number, the program will display a message "Good Work" otherwise display a message "Not matched"**
   https://www.w3resource.com/javascript-exercises/javascript-basic-exercise-8.php

2. **Write a JavaScript program to calculate number of days left until next Christmas. Take date as input from user.**
   https://www.w3resource.com/javascript-exercises/javascript-basic-exercise-9.php

3. **JavaScript validation**

   a. Write a JavaScript function to validate whether a given value type is boolean or not
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-1.php
   b. Write a JavaScript function to validate whether a given value type is error or not
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-2.php
   c. Write a JavaScript function to validate whether a given value type is NaN or not
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-3.php
   d. Write a JavaScript function to validate whether a given value type is null or not
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-4.php
   e. Write a JavaScript function to validate whether a given value is number or not
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-5.php
   f. Write a JavaScript function to validate whether a given value is object or not.
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-6.php
   g. Write a JavaScript function to validate whether a given value is RegExp or not.
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-8.php
   h. Write a JavaScript function to validate whether a given value type is char or not.
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-9.php
   i. Write a JavaScript function to check whether given value types are same or not
      https://www.w3resource.com/javascript-exercises/validation/javascript-validation-exercise-10.php

4. **JavaScript validation on submit. Following pictorial shows in which field, what validation we want to impose.**



Create JavaScript functions (one for each input field whose value is to validate) which check whether a value submitted by user passes the validation.

https://www.w3resource.com/javascript/form/javascript-sample-registration-form-validation.php

5. **Every computer connected to the Internet is identified by a unique four-part string, known as its Internet Protocol (IP) address. An IP address consists of four numbers (each between 0 and 255) separated by periods. The format of an IP address is a 32-bit numeric address written as four decimal numbers (called octets) separated by periods; each number can be written as 0 to 255 (e.g., 0.0.0.0 to 255.255.255.255).**

Example of valid IP address

- 115.42.150.37
- 192.168.0.1

- 110.234.52.124

Example of invalid IP address

- 210.110 – must have 4 octets
- 255 – must have 4 octets
- y.y.y.y – the only digit has allowed
- 255.0.0.y – the only digit has allowed
- 666.10.10.20 – digit must between [0-255]
- 4444.11.11.11 – digit must between [0-255]
- 33.3333.33.3 – digit must between [0-255]

Write a JavaScript code to validate an IP address

https://www.w3resource.com/javascript/form/ip-address-validation.php