Programming of web pages – JavaScript

Exercises

1. Write a JavaScript program where the program takes a random integer between 1 to 10. Next, the user is asked 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".

   Materials:

   - http://www.w3schools.com/js/js_random.asp
   - http://www.w3schools.com/js/js_validation.asp
   - http://www.w3schools.com/js/js_if_else.asp
   - http://www.w3schools.com/js/js_output.asp

   Solution:
   http://www.w3resource.com/javascript-exercises/javascript-basic-exercise-8.php

2. Write a JavaScript program to calculate multiplication and division of two numbers.

   Sample form:

   Solution:
   http://www.w3resource.com/javascript-exercises/javascript-basic-exercise-10.php

3. Write a JavaScript program to convert temperatures to and from Celsius, Fahrenheit.

   Tip: Celsius = (5/9) * (Fahrenheit - 32)

   Solution: http://www.w3resource.com/javascript-exercises/javascript-basic-exercise-11.php

4. Write a JavaScript function to compute the value of a^n. Variables *a* and *n* should be inputted by the user.

   Solution: http://www.w3resource.com/javascript-exercises/javascript-function-exercise-15.php

5. Write a JavaScript program to calculate the factorial of a number. In mathematics, the factorial of a non-negative integer n, denoted by n!, is the product of all positive integers less than or equal to n. For example, 5! = 5 x 4 x 3 x 2 x 1 = 120

   Solution: http://www.w3resource.com/javascript-exercises/javascript-recursion-function-exercise-1.php

6. Write a JavaScript program to sort the items of an array.

   Sample array : var arr1 = [3, 8, 7, 6, 5, -4, 3, 2, 1];
   Sample Output : -4,-3,1,2,3,5,6,7,8

   Sample solution: http://www.w3resource.com/javascript-exercises/javascript-array-exercise-7.php