**JavaScript Assignment**

**Question: 01 Write a JavaScript function that reverse a number.**

1. function reverse() {
2. var num;
3. num = prompt("enter your number to reverse it.");
4. num = num.toString();
5. num = num.split('');
6. num = num.reverse('');
7. num = num.join('');
8. num = parseInt(num);
9. alert(num);
10. }
11. reverse();
12. </script>

**Question: 02**

**Write a JavaScript function that checks whether a passed string is palindrome or not?**

 <script>

        function palindrome() {

            var num;

            num = prompt("enter your number to reverse it.");

            num2 = num.toString();

            num2 = num2.split('');

            num2 = num2.reverse('');

            num2 = num2.join('');

            if (num == num2) {

                alert(num + " is palindrome");

            }

            else {

                alert("this is not palindrome");

            }

        }

        palindrome();

    </script>

**Question: 03 Write a JavaScript function that generates all combinations of a string.**

    <script>

        function combination() {

            var input = prompt("enter your string");

            var result = [];

            for (var i = 0; i < input.length; i++) {

                for (var j = i + 1; j < input.length + 1; j++) {

                    result.push(input.slice(i, j));

                }

            }

            alert(result);

        }

        combination();

    </script>

**Question: 04 Write a JavaScript function that returns a passed string with letters in alphabetical order.**

**Example string : 'webmaster' Expected Output : 'abeemrstw'**

    <script>

        function sort() {

            var str = prompt("enter your string");

            var result;

            str = str.split('');

            str = str.sort();

            result = str.join('');

            document.write(result);

        }

        sort();

    </script>

**Question: 05 Write a JavaScript function that accepts a string as a parameter and converts the first letter of each word of the string in upper case.**

**Example string : 'the quick brown fox' Expected Output : 'The Quick Brown Fox '**

    <script>

        function upper(str) {

            str = str.split('');

            str[0] = str[0].toUpperCase();

            for (var i = 0; i < str.length; i++) {

                if (str[i] == undefined || str[i] == ' ') {

                    str[i + 1] = str[i + 1].toUpperCase();

                }

            }

            str = str.join('');

            document.write(str);

        }

        upper('the quick brown fox');

    </script>

**Question:06 Write a JavaScript function that accepts a string as a parameter and find the longest word within the string.**

**Example string : 'Web Development Tutorial' Expected Output : 'Development'**

        function longest(){

        var str = prompt("Enter a String to find a longest word");

        var longest;

        str = str.split(' ');

        for (var i = 0; i < str.length; i++) {

            for (var j = 0; j < str.length; j++) {

                if (str[i].length < str[j].length) {

                    longest = str[j];

                }

            }

        }

        document.write(longest);

    }

    longest();

**question: 07 Write a JavaScript function that accepts a string as a parameter and counts the number of vowels within the string.**

**Example string : 'The quick brown fox' Expected Output : 5**

    <script>

        function vowel() {

            var str = prompt("enter your string");

            var result;

            var count = 0;

            var vowel = "aeiouAEIOU";

            for (var i = 0; i < str.length; i++) {

                if (vowel.indexOf(str[i]) !== -1) {

                    count++;

                }

            }

            document.write(count);

        }

        vowel();

    </script>

**Question: 08 Write a JavaScript function that accepts a number as a parameter and check the number is prime or not.**

    <script>

               function prime(num) {

            if (num == 1  || num == 2) {

                document.write(num + " is not a prime number");

            }

            else if (num < 1) {

                document.write(num + " is not a prime number because any negative number or zero is not a prime number");

            }

            else {

                for (var i = 2; i < num; i++) {

                    if (num % i === 0) {

                        document.write(num + " is not a prime number");

                    }

                    else {

                        document.write(num + " is a prime number");

                    }

                    break;

                }

            }

        }

        var num = prompt("enter your number to whether it is prime or not")

        prime(num);

**Question: 09 Write a JavaScript function which accepts an argument and returns the type.**

**Note : There are six possible values that typeof returns: object, boolean, function, number, string, and undefined**.

**Question: 10 Write a JavaScript function which will take an array of numbers stored and find the second lowest and second greatest numbers, respectively.**

**Sample array : [1,2,3,4,5] Expected Output : 2,4**

<script>

        function second(){

        var num = [9, 8, 2, 3, 4, 5];

        num = num.sort();

        var secondLowest = num[1];

        var secondGreatest = num[num.length - 2];

        var list = [];

        list.push(secondLowest)

        list.push(secondGreatest);

        document.write(list);

        }

        second();

    </script>