Assignment-4

Develop and demonstrate a HTML5 file that includes JavaScript script that uses functions for the following problems:

a. Parameter: A string

b. Output: The position in the string of the left-most vowel

c. Parameter: A number

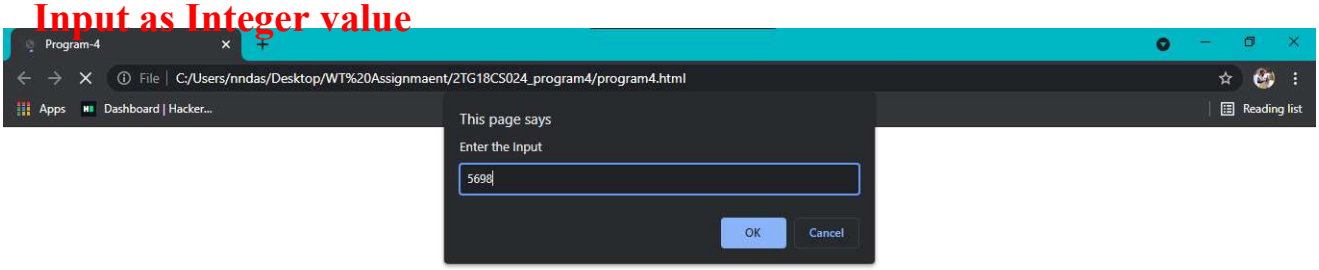
d. Output: The number with its digits in the reverse order

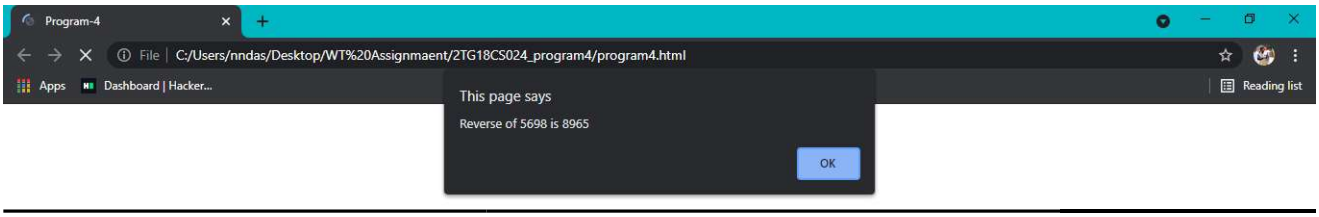
Program4.html

```
<!DOCTYPE HTML>
<html>
<head>
    <title>Program-4</title>
</head>
<body>
    <script type="text/javascript">
        var str = prompt("Enter the Input", "");
        if (!(isNaN(str))) //isNaN means is Not a Number
        {
            var num, rev = 0, remainder;
            num = parseInt(str);
            while (num != 0) {
                remainder = num % 10;
                num = parseInt(num / 10);
                rev = rev * 10 + remainder;
            }
            alert("Reverse of " + str + " is " + rev);
        }
        else {
            str = str.toUpperCase();
            for (var i = 0; i < str.length; i++) //0,1,2,3
            {
                var chr = str.charAt(i);
                if (chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')
                    break;
            }
            if (i < str.length)
                alert("The position of the left most vowel is " + (i + 1));
            else
                alert("No vowel found in the entered string");
        }
    </script>
</body>
</html>
```

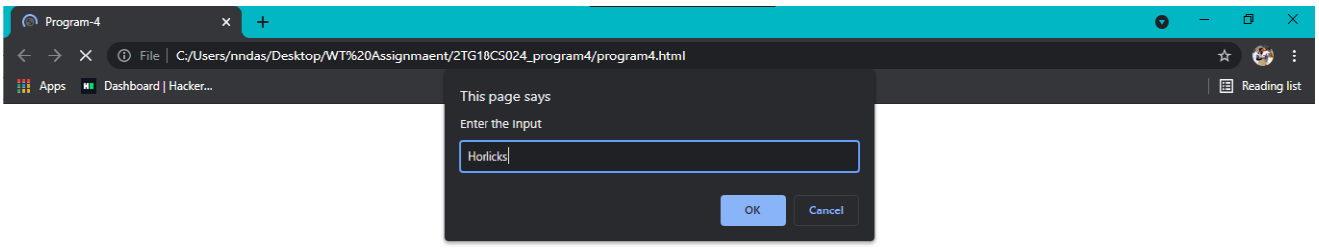
Output:

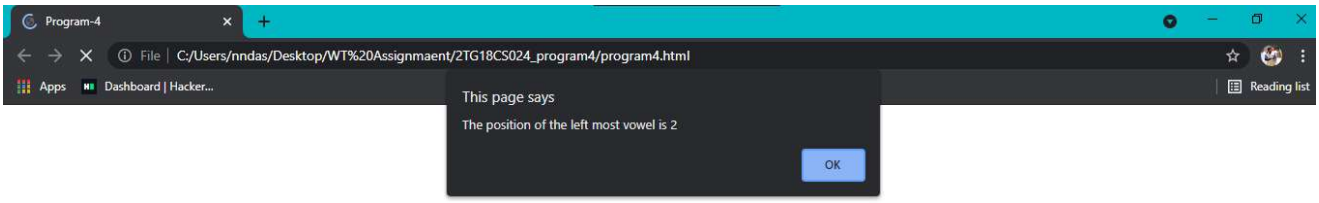
Input as Integer value



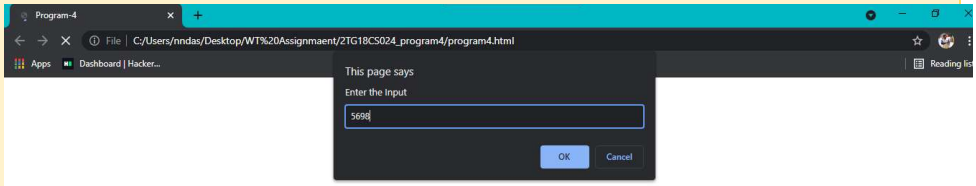
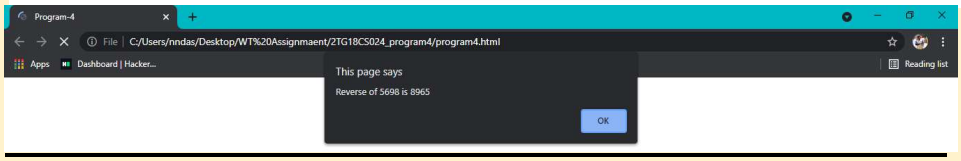
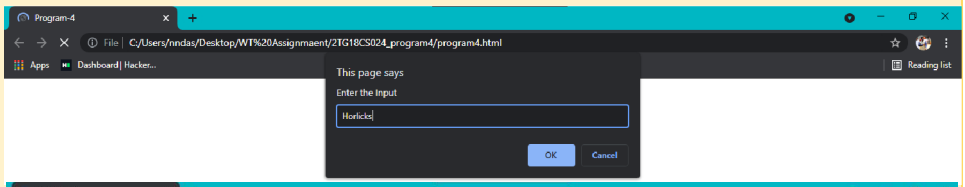
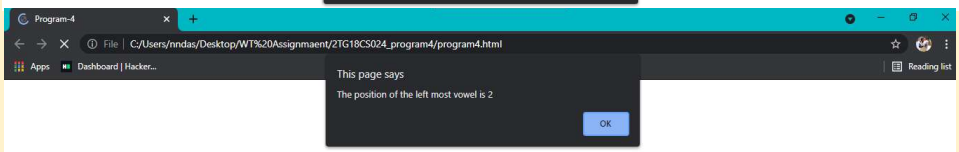
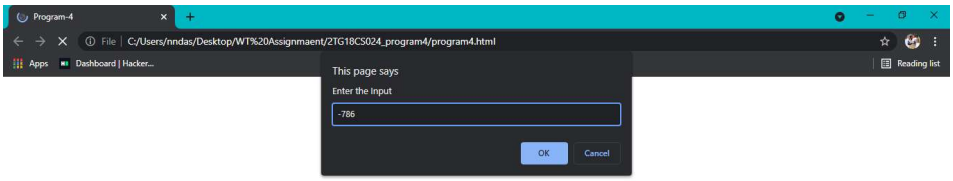
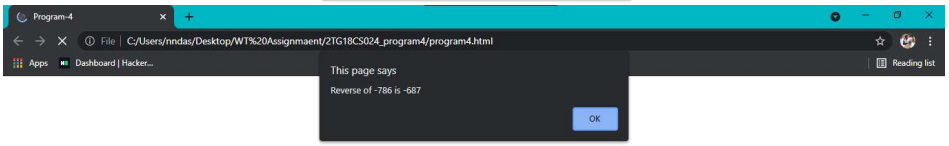
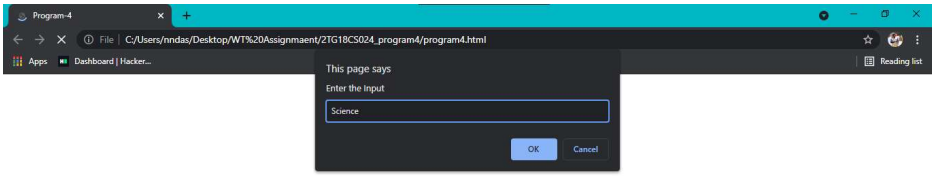
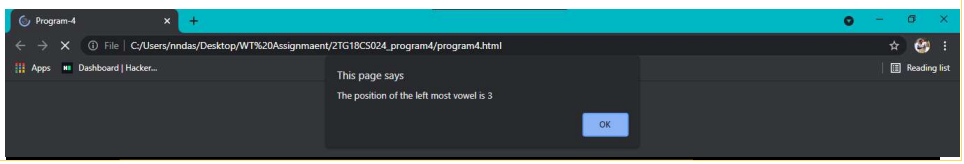


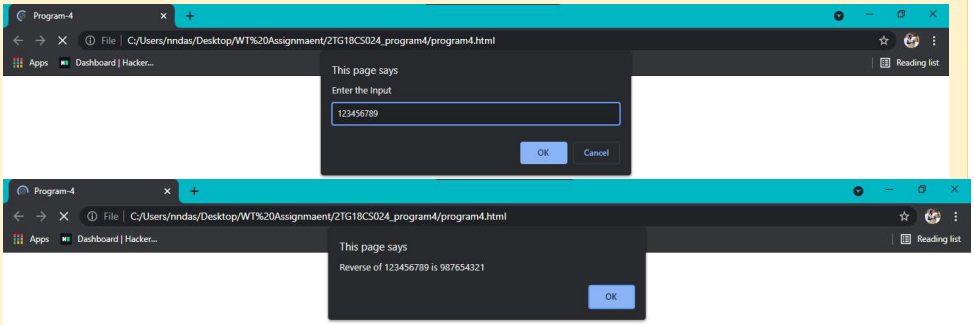
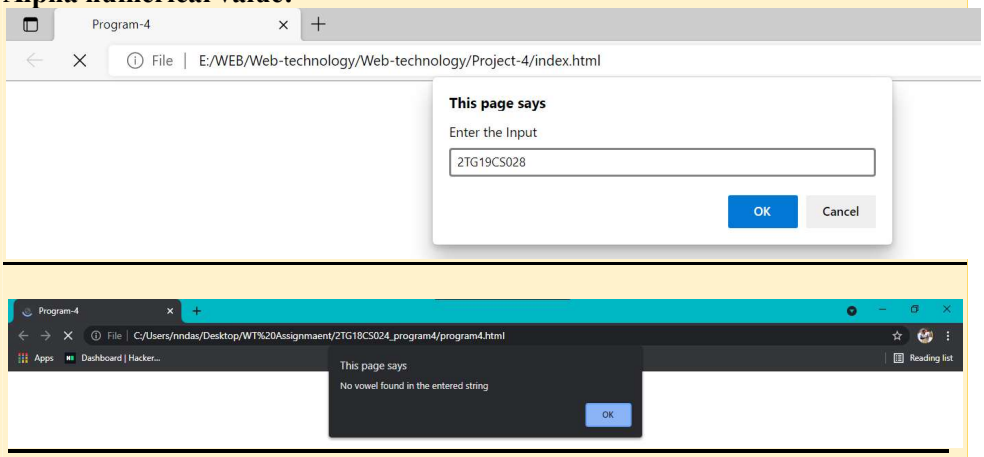
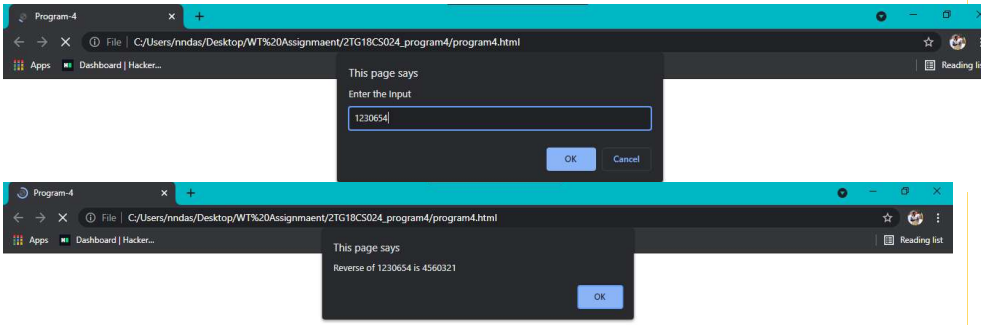
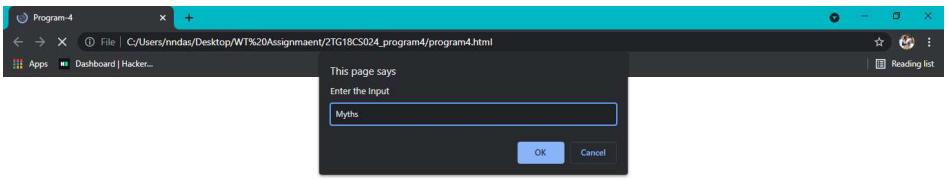
Input as String value

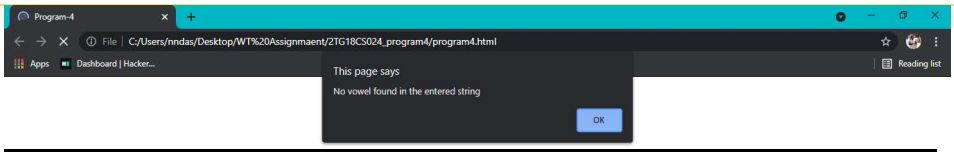


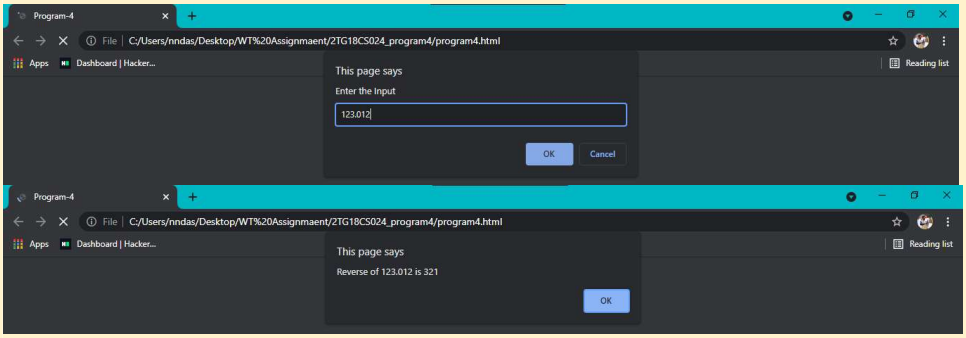


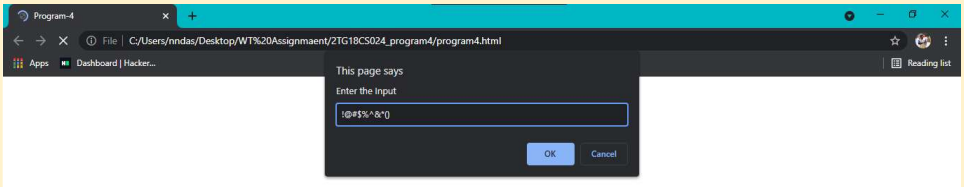
Test cases:

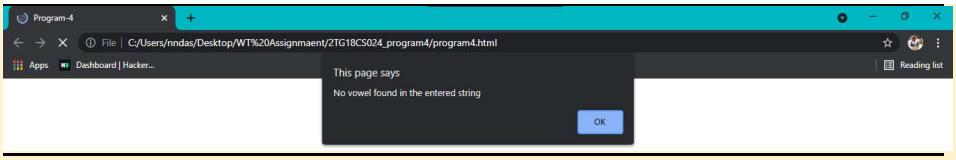
Test No.	InputParameters	Obtained Output
1.	Integer Value:	**Integer Value:**  
	Text Value:	**Text Value:**  
2.	Negative Integer value:	**Negative Integer value:**  
	Text Value:	**Text Value:**  

3.	Integer Value: Alpha numerical value:	**Integer Value:**  **Alpha numerical value:** 
4.	Integer Value: Non vowel string:	**Integer Value:**  **Non vowel string:** 

<table>
<tr><td></td><td></td><td> 
</td></tr>
<tr><td>5.</td><td>Floating point value:

Special characters value:</td><td>Floating point value:
 

Special characters value:
 

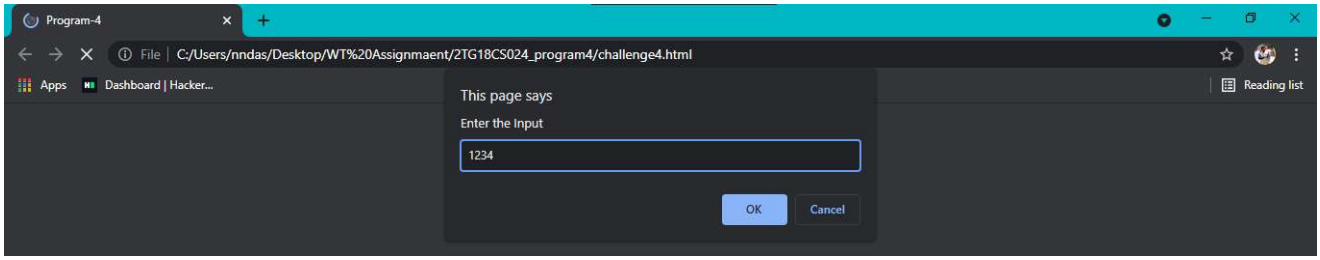

</td></tr>
</table>

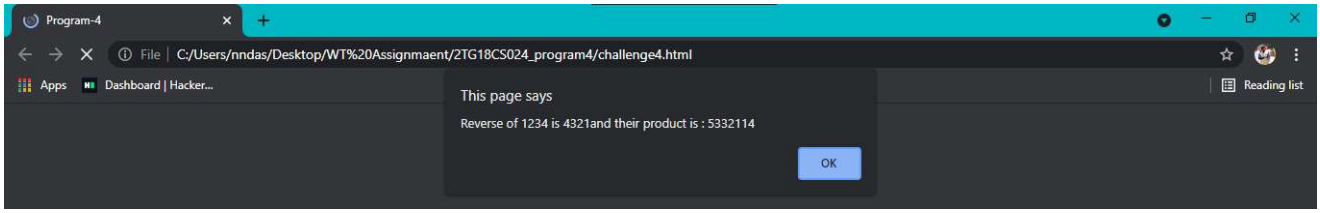
Challenge4.html

```
<!DOCTYPE HTML>
<html>

<head>
    <title>challenge-4</title>
</head>

<body>
    <script type="text/javascript">
        var str = prompt("Enter the Input", "");
        if (!(isNaN(str))) //isNaN means is Not a Number
        {
            var num, rev = 0, remainder, product;
            num = parseInt(str);
            while (num != 0) {
                remainder = num % 10;
                num = parseInt(num / 10);
                rev = rev * 10 + remainder;
            }
            product = parseInt(str) * rev;
            alert("Reverse of " + str + " is " + rev + "and their product is : " + product
);
        }
        else {
            str = str.toUpperCase();
            count =0;
            for (var i = 0; i < str.length; i++) //0,1,2,3
            {
                var chr = str.charAt(i);
                if (chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')
                {
                    count++;
                }
            }
            if (count>0)
                alert("The given string :" + str + " has " + count + " number of vowels.")
;
            else
                alert("No vowel found in the entered string");
        }
    </script>
</body>

</html>
```

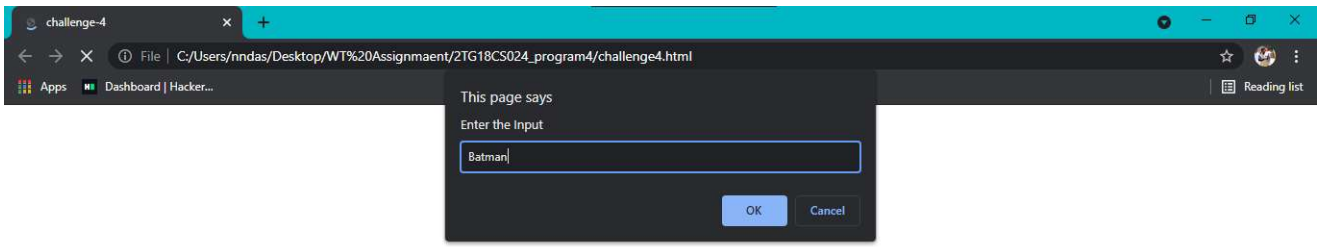
Output:

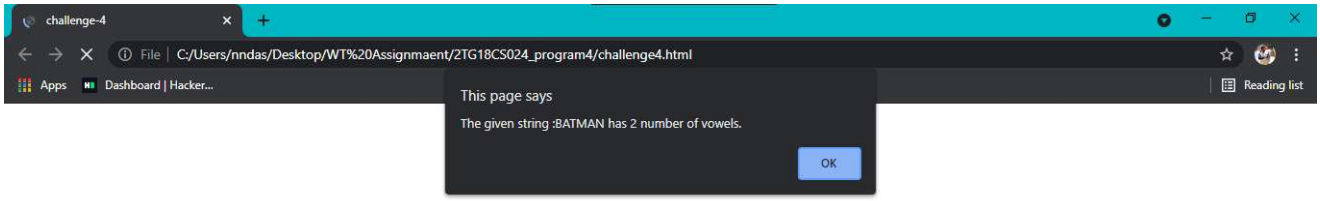
Input as Integer value



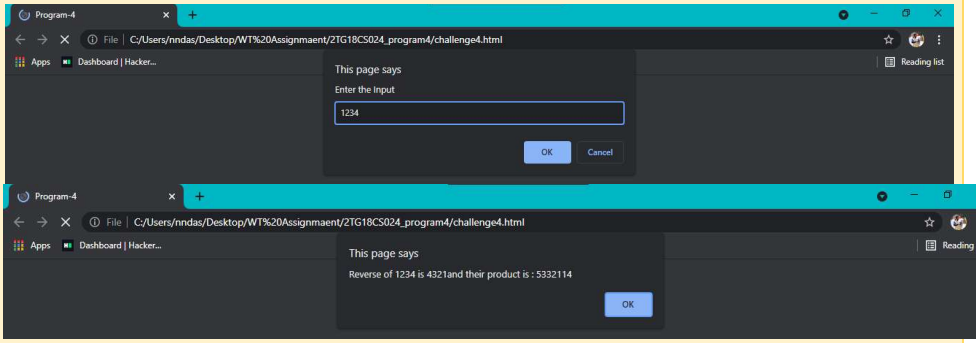
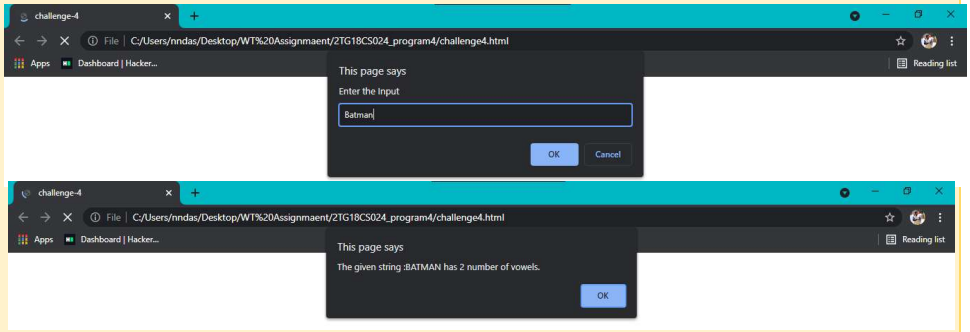
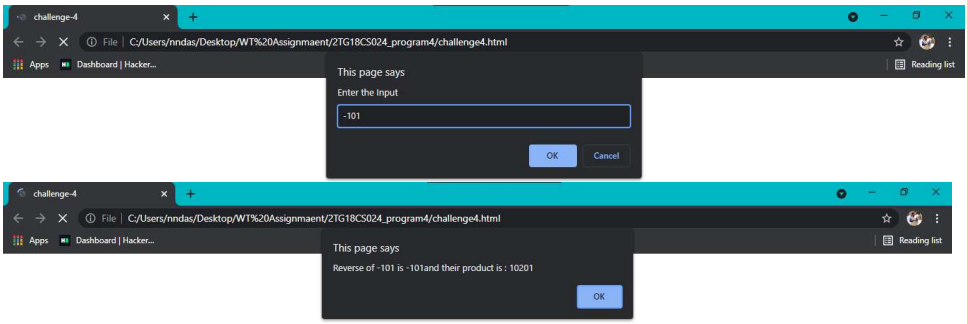
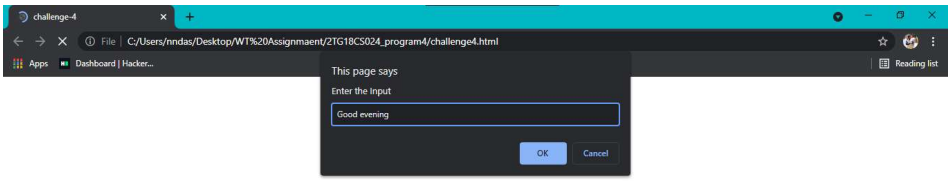


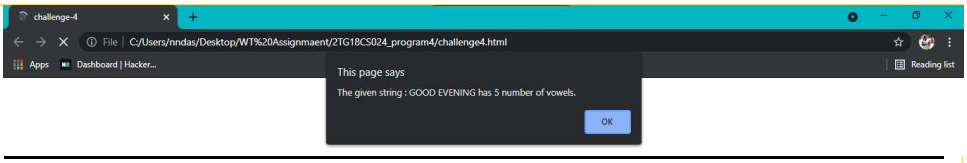
Input as String value



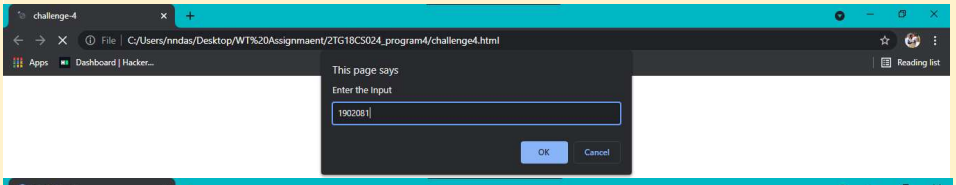


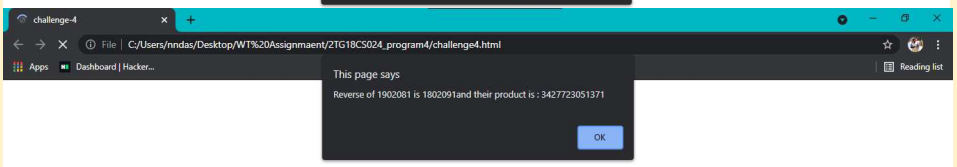
Test cases:

Test No.	InputParameters	Obtained Output
1.	Integer Value:	**Integer Value:** 
	Text Value:	**Text Value:** 
2.	Negative Integer value:	**Negative Integer value:** 
	Text Value:	**Text Value:** 



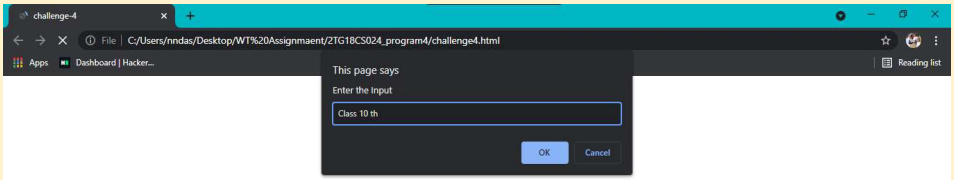
3.	Integer Value:	**Integer Value:**

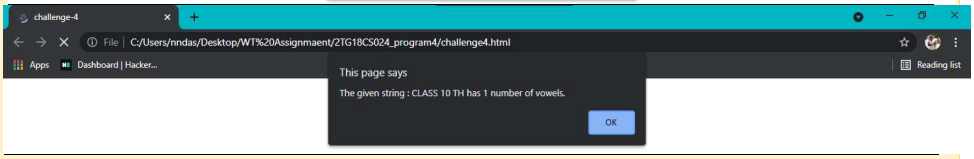




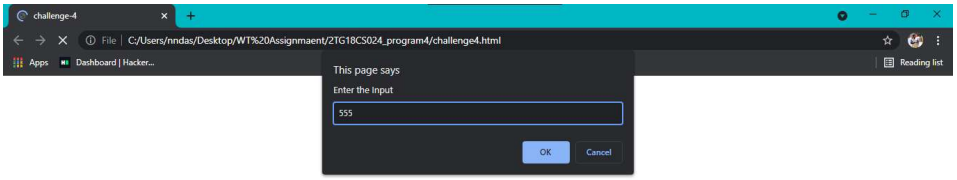
Alpha numerical value:

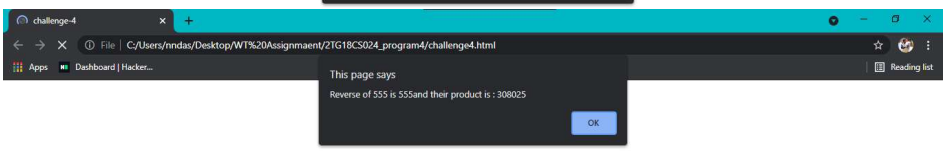
Alpha numerical value:





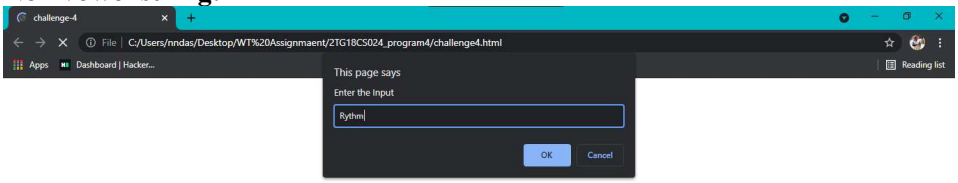
4.	Integer Value:	**Integer Value:**

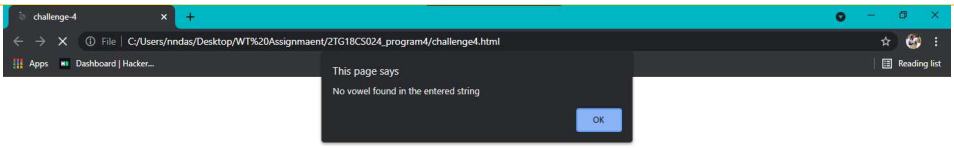
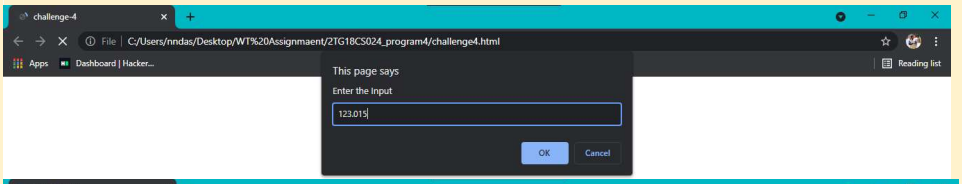
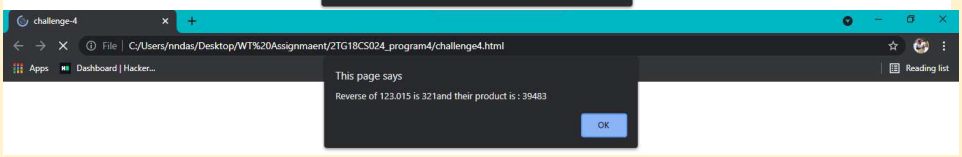
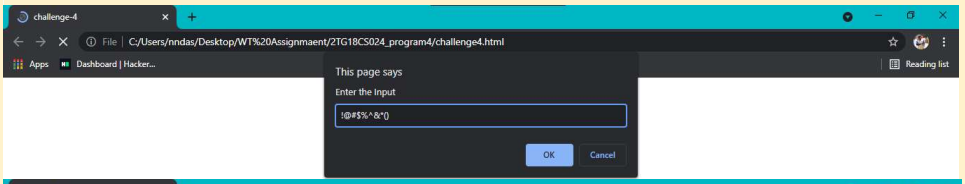
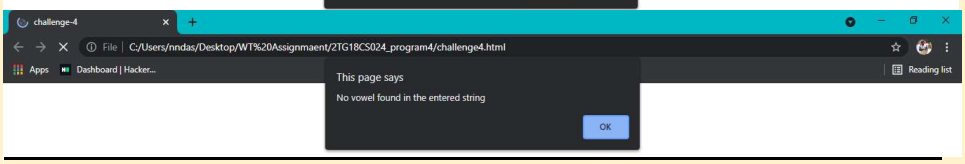
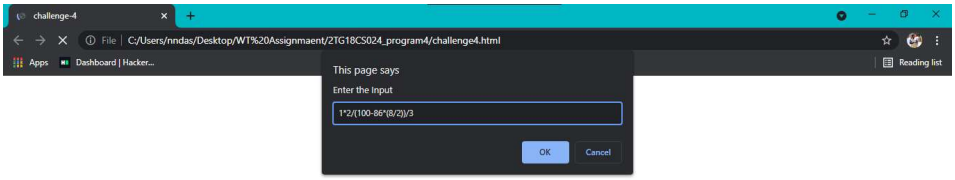
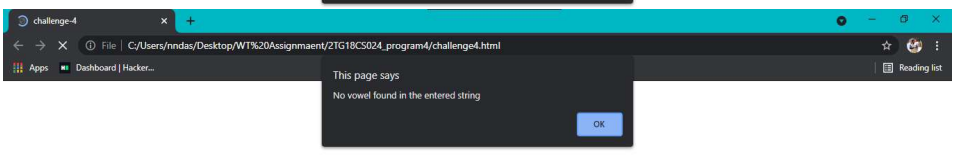
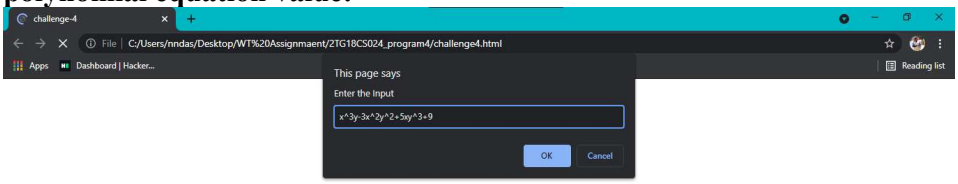


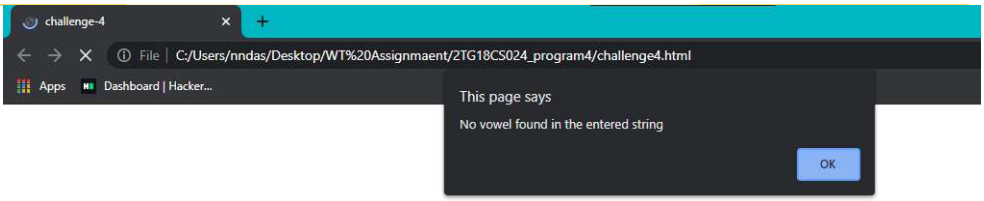


Non vowel string:

Non vowel string:



		
5.	Floating point value: Special characters value:	**Floating point value:**   **Special characters value:**  
6.	Arithmetic expression value: Polynomial equation value:	**Arithmetic expression value:**   **polynomial equation value:** 

		 challenge-4 File | C:/Users/nndas/Desktop/WT%20Assignmaent/2TG18CS024_program4/challenge4.html Apps Dashboard | Hacker... This page says No vowel found in the entered string OK