Assignment 4

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1JT18IS026

Program-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.

```
<!DOCTYPE HTML>
<html>
<head>
 <title>Program-4</title>
</head>
<body>
 <script type="text/javascript">
var str = prompt("Enter the Input", "");
if (!(isNaN(str)))
{
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++)
{
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>
```

Test Cases

Case no.	Test case	Expected output	Obtained output
1	Integer value: 163	Reverse of 163 is 361	Reverse of 163 is 361
	Text value: keer	The position of the left most vowel is 2	The position of the left most vowel is 2
2	Negative value: -123	Reverse of -123 is -321	Reverse of -123 is -321
	Text value: abc	The position of the left most vowel is 1	The position of the left most vowel is 1
3	Integer value:256	Reverse of 256 is 652	Reverse of 256 is 652
	Non vowel string: xyz	No vowel found in the string	No vowel found in the string
4	Integer value: 897	Reverse of 897 is 798	Reverse of 897 is 798
	Alpha numerical value:	The position of the left most vowel is 3	The position of the left most vowel is 3

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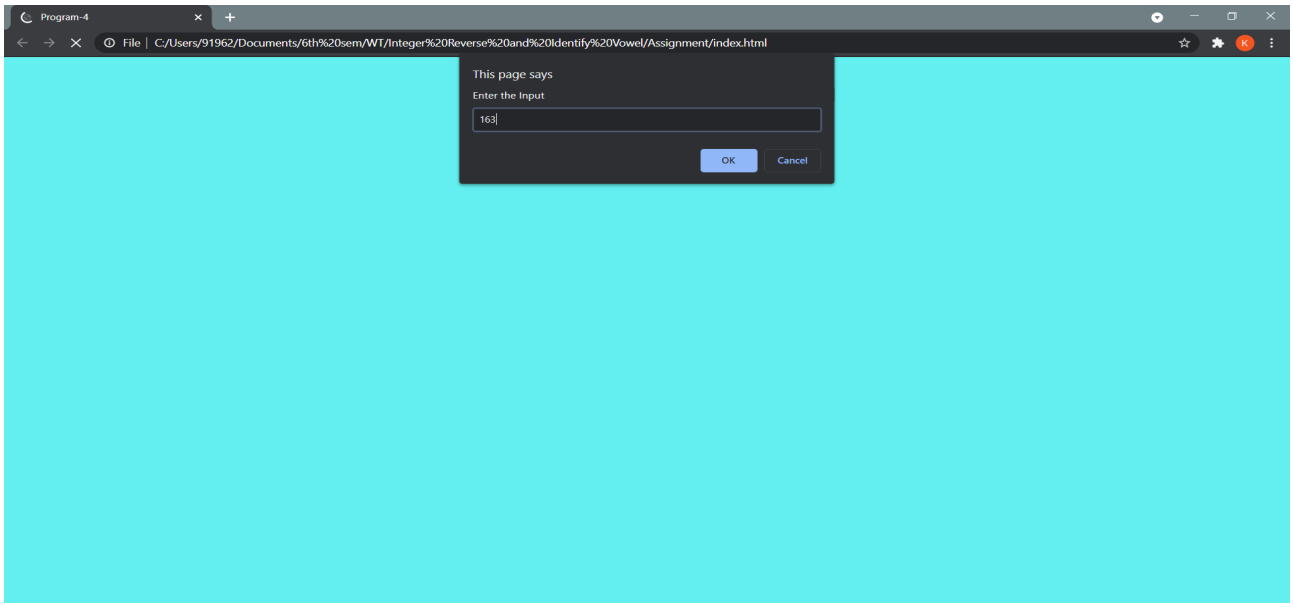
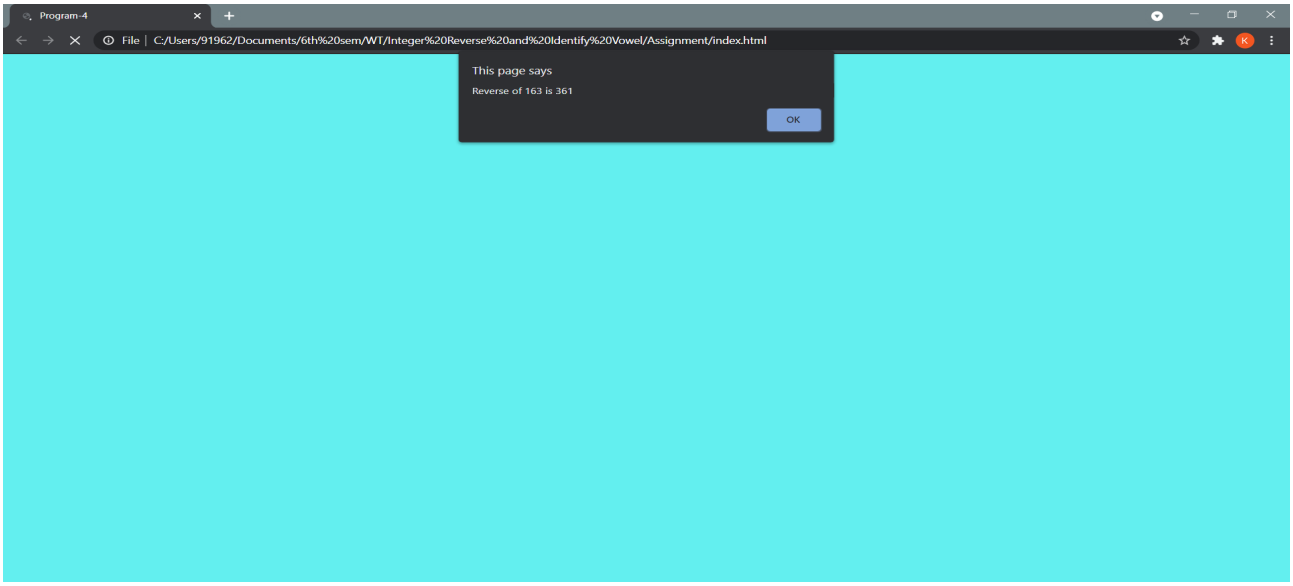
Output1:





Output2:

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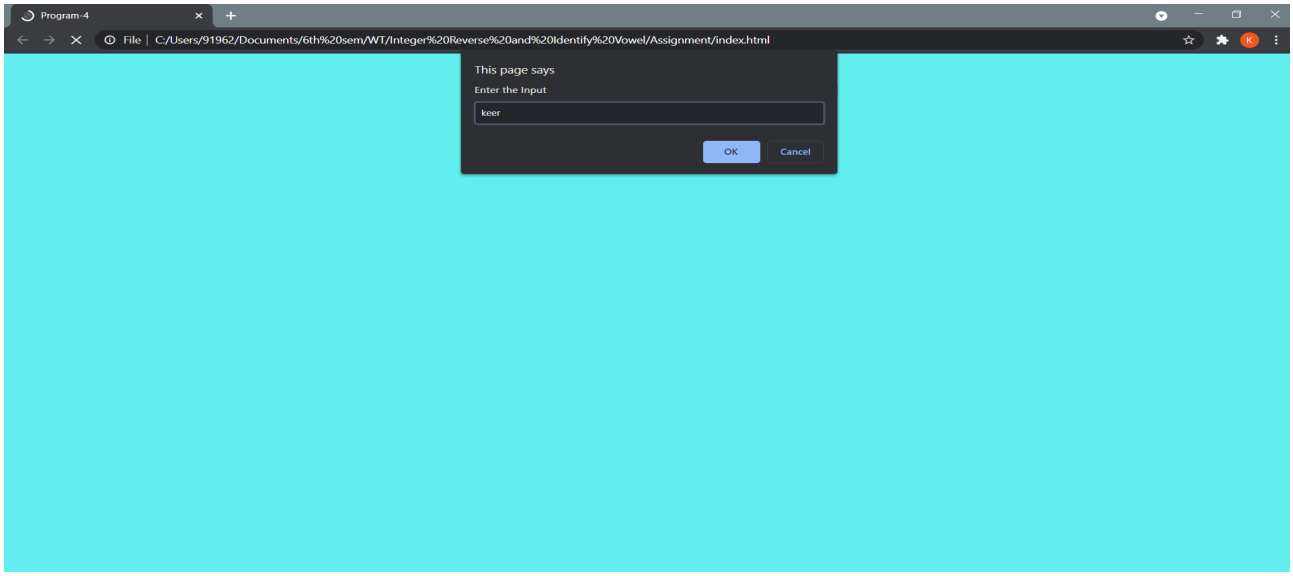

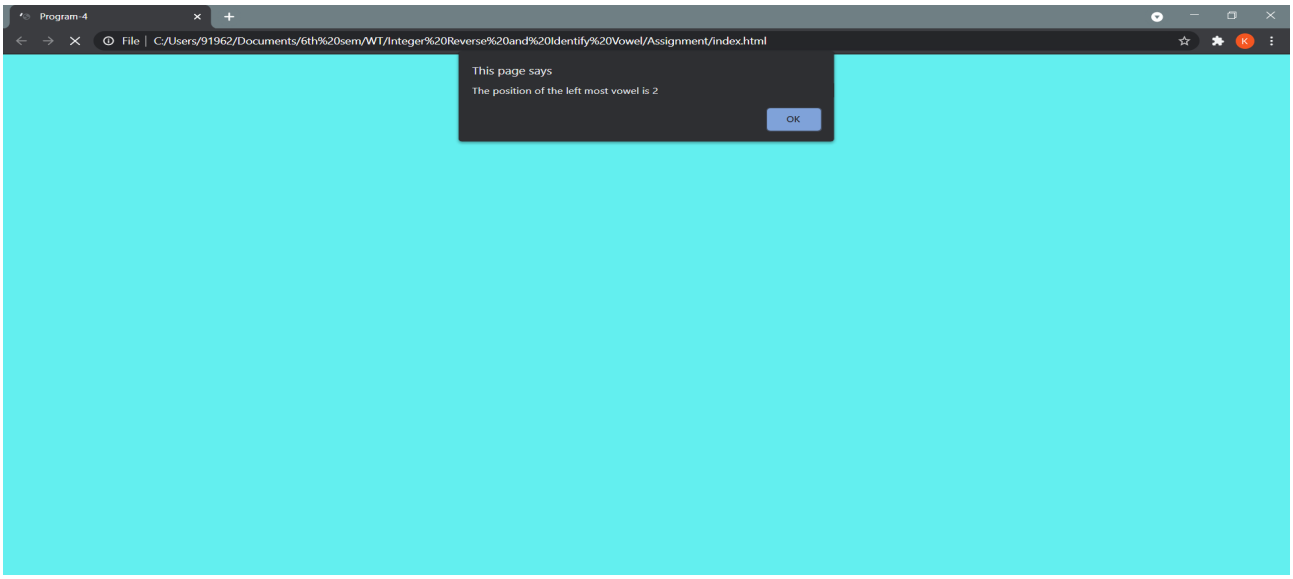

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Challenge

```
<!DOCTYPE HTML>
<html>
<head>
<title>Challenge 4</title>
</head>
<body style="background-color: rgb(85, 217, 250);">
<script type="text/javascript">
var str = prompt("Enter the Input", "");
if (!(isNaN(str)))
{
var n, n1, rev = 0, rem;
n = parseInt(str);
n1 = n;
while (n != 0)
{
rem = n % 10;
n= parseInt(n/ 10);
rev = rev * 10 + rem;
}
product = n1 * rev;
alert("Reverse of " + str + " is " + rev);
alert("Product of " + n1 + " and " + rev + " is " + product);
}
else
{
str = str.toUpperCase();
var count = 0;
for (var j = 0; j < str.length; j++)
{
var chr = str.charAt(j);
if (chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')
{
count=count+1;
}
}
alert("The number of vowels are " + count);
for (var i = 0; i < str.length; i++)
{
var chr = str.charAt(i);
if (chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')
{
```

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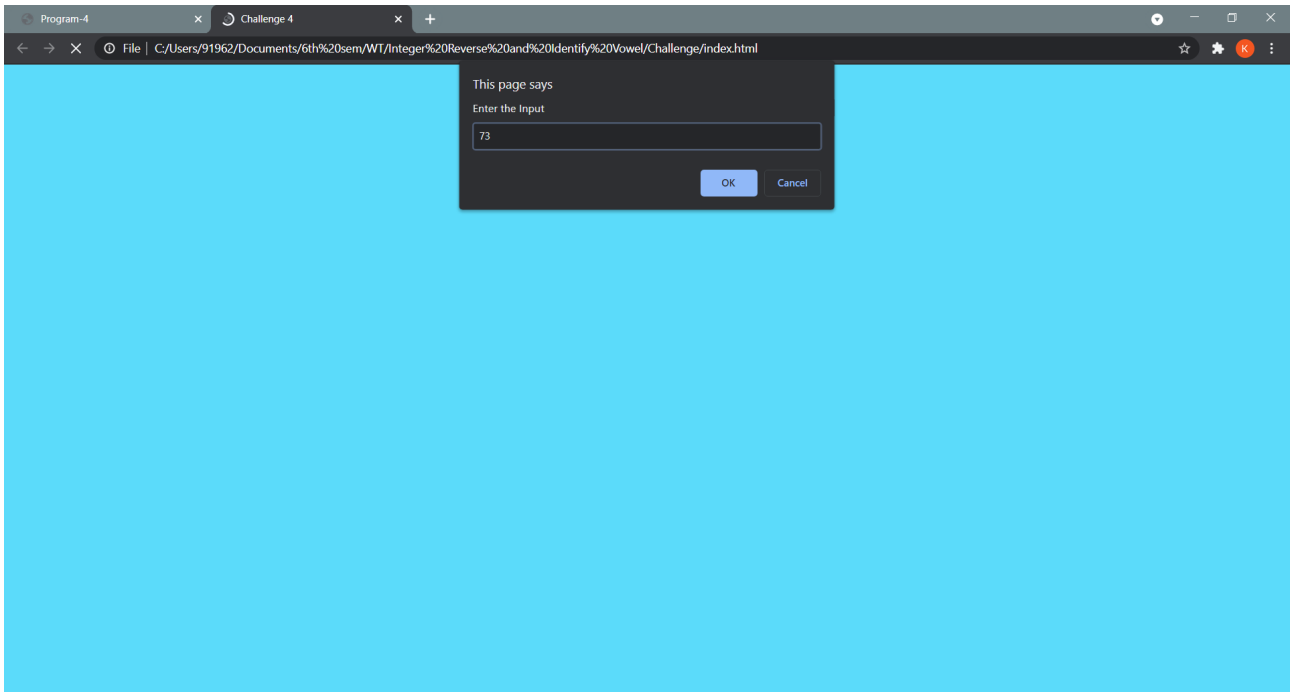
```
break;
}
}
if (i < str.length)
alert("The position of the left most vowel is " + (i + 1));
else
alert("No vowel found in the entered string");
}
</script>
</body>
</html>
```

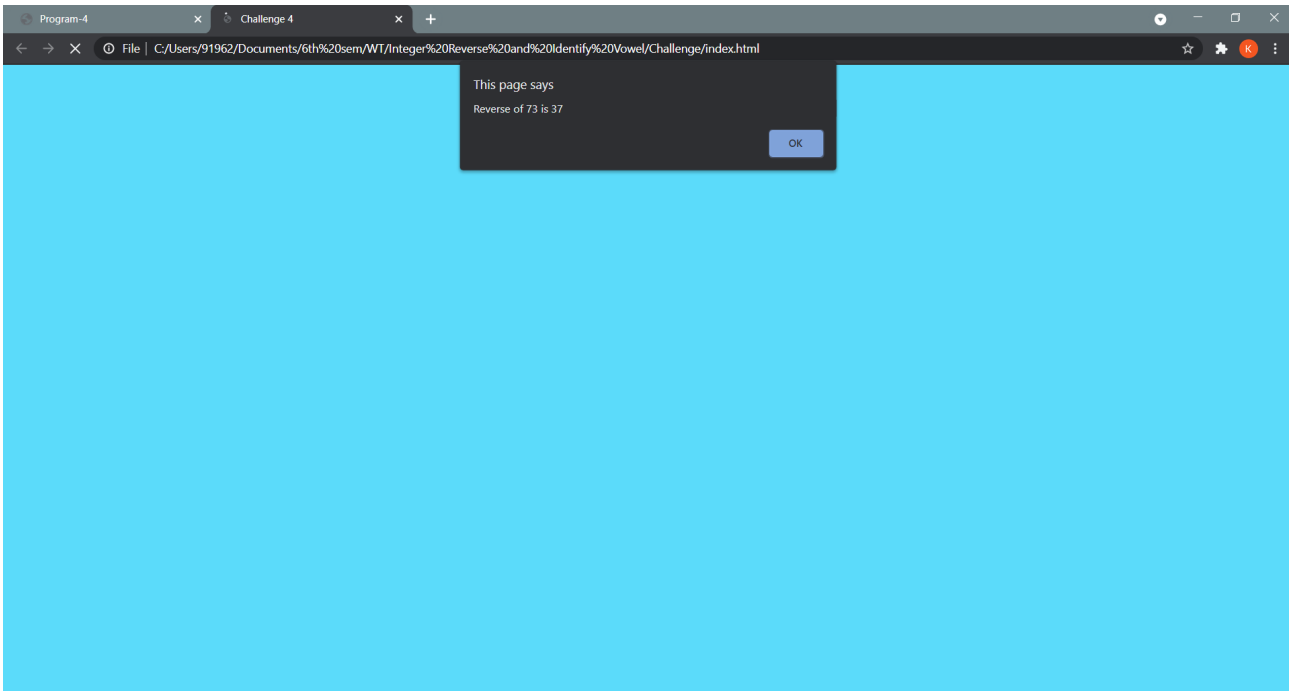
Test Cases

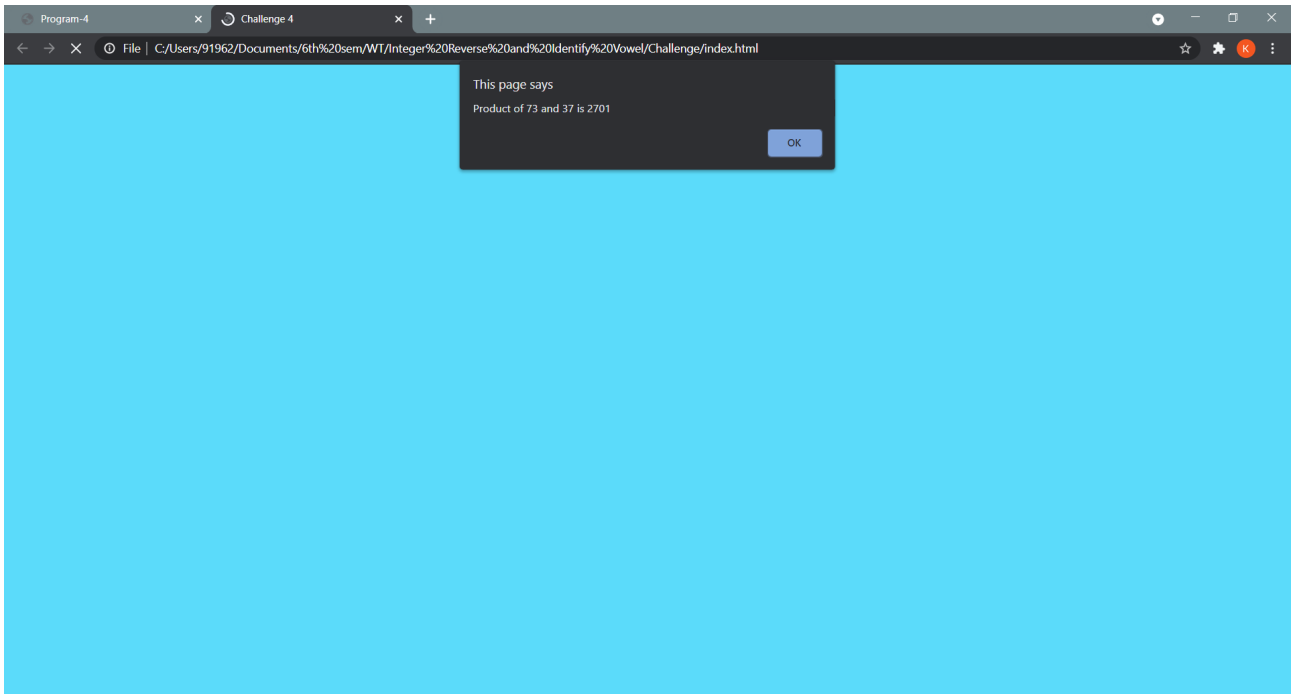
Case no.	Test case	Expected output	Obtained output
1	Integer value: 73	Reverse of 73 is 37. Product of 73 and 37 is 2701	Reverse of 73 is 37. Product of 73 and 37 is 2701
	Text value: abc	The number of vowels are 1	The number of vowels are 1
2	Negative value: -123	Reverse of –123 is – 321.	Reverse of –123 is – 321.
	Test value: keer	Product of -123 and -321 is 39483. The number of vowels are 2	Product of -123 and -321 is 39483. The number of vowels are 2
3	Integer Value: 69	Reverse of 69 is 96. Product of 69 and 96 is 6624.	Reverse of 69 is 96. Product of 69 and 96 is 6624.
	Non vowel string: xyz	No vowel found in the entered string	No vowel found in the entered string
4	Integer Value: 12345	Reverse of 12345 is 54321. Product of 12345 and 54321 is 670592745.	Reverse of 12345 is 54321. Product of 12345 and 54321 is 670592745.
	Alpha numerical value: 73ut	The number of vowels are 1	The number of vowels are 1
5	Integer Value: 4567	Reverse of 4567 is 7654 Product of 4567 and 7654 is 34955818.	Reverse of 4567 is 7654 Product of 4567 and 7654 is 34955818.

Test Value: Good Morning.	The number of vowels are 4	The number of vowels are 4

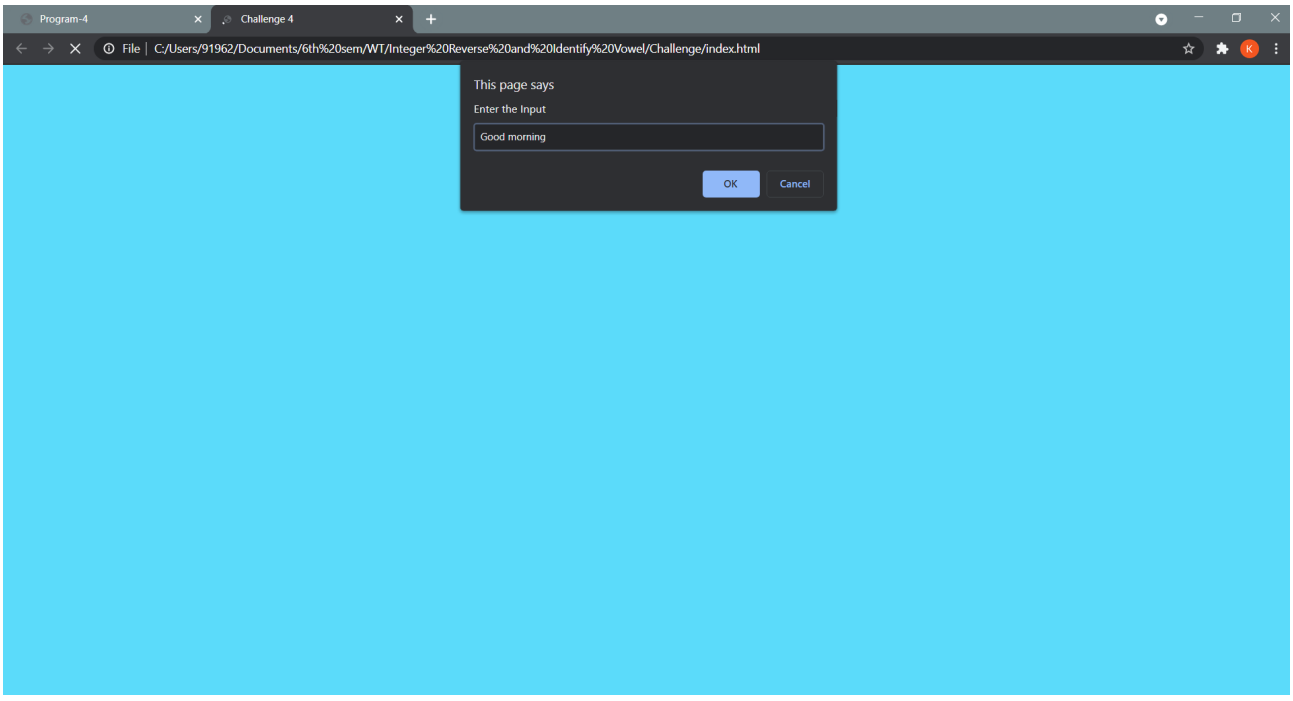
Output1:

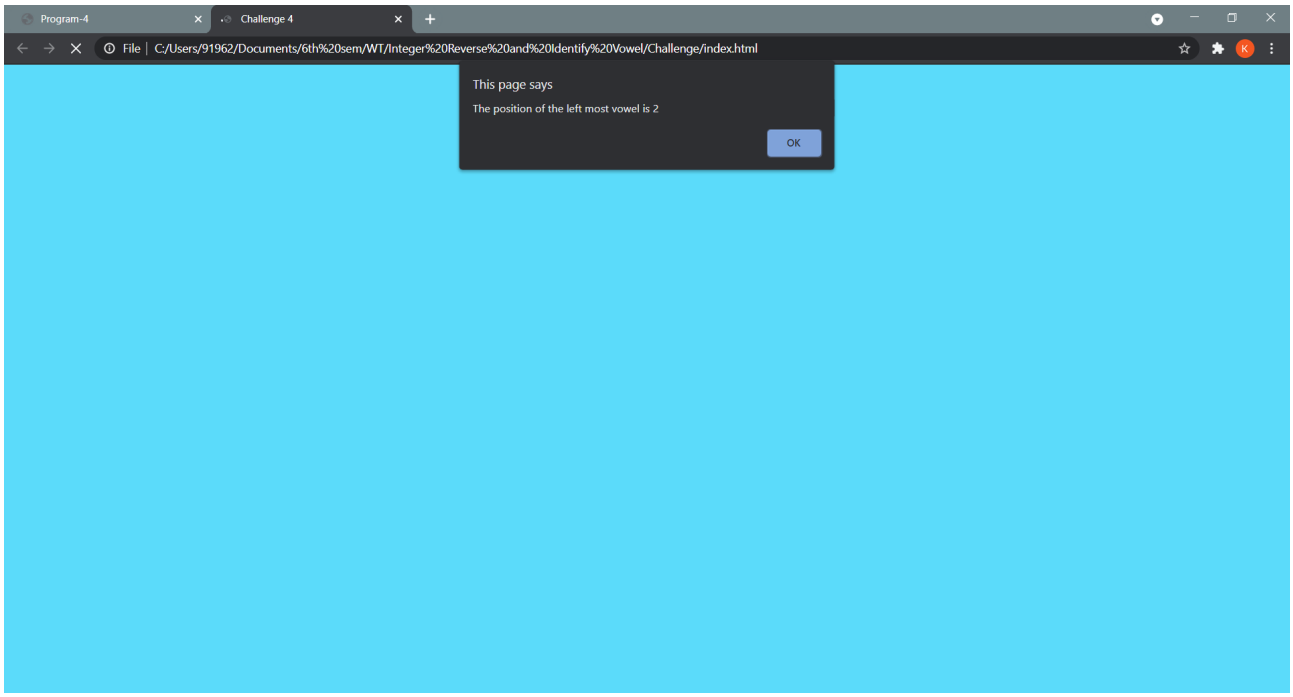


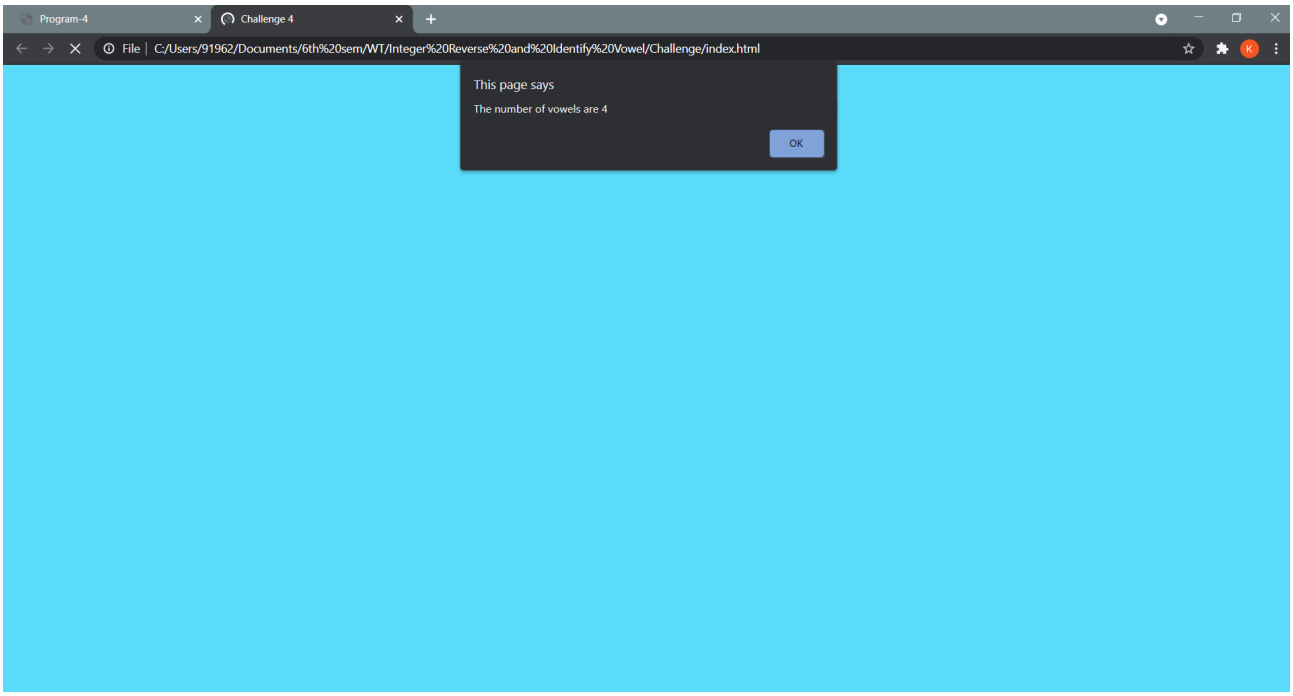



Program-4
Challenge 4
File | C:/Users/91962/Documents/6th%20sem/WT/Integer%20Reverse%20and%20Identify%20Vowel/Challenge/index.html
This page says
Product of 73 and 37 is 2701
OK

Output2:


Program-4
Challenge 4
File | C:/Users/91962/Documents/6th%20sem/WT/Integer%20Reverse%20and%20Identify%20Vowel/Challenge/index.html
This page says
Enter the Input
Good morning
OK
Cancel


Program-4
Challenge 4
File | C:/Users/91962/Documents/6th%20sem/WT/Integer%20Reverse%20and%20Identify%20Vowel/Challenge/index.html
This page says
The position of the left most vowel is 2
OK


Program-4
Challenge 4
File | C:/Users/91962/Documents/6th%20sem/WT/Integer%20Reverse%20and%20Identify%20Vowel/Challenge/index.html
This page says
The number of vowels are 4
OK