

Web Technology and Application Assignment – 4

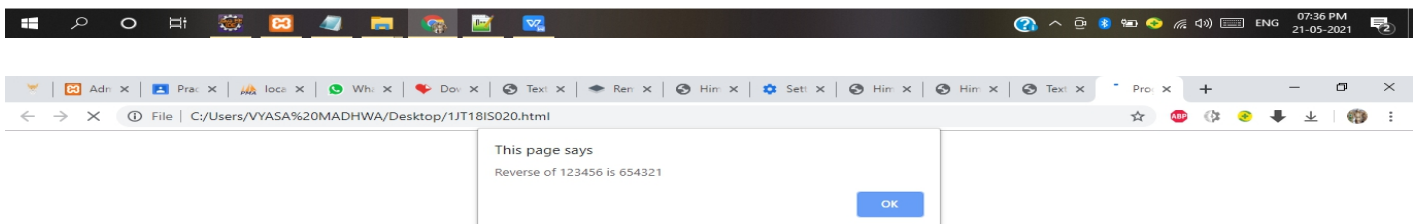
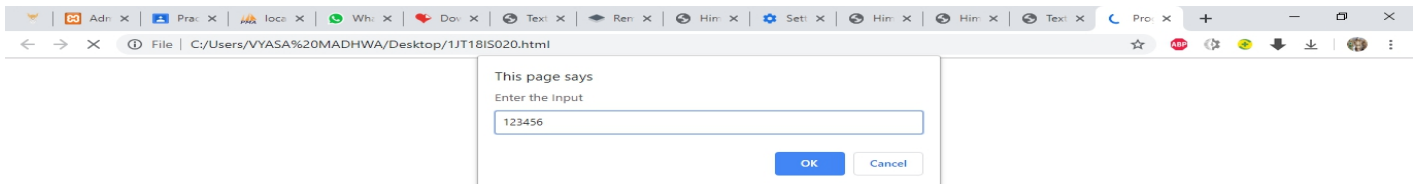
4. Develop and demonstrate a HTML5 file that includes JavaScript script that uses functions for the following problems:

- 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**

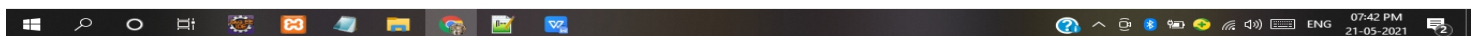
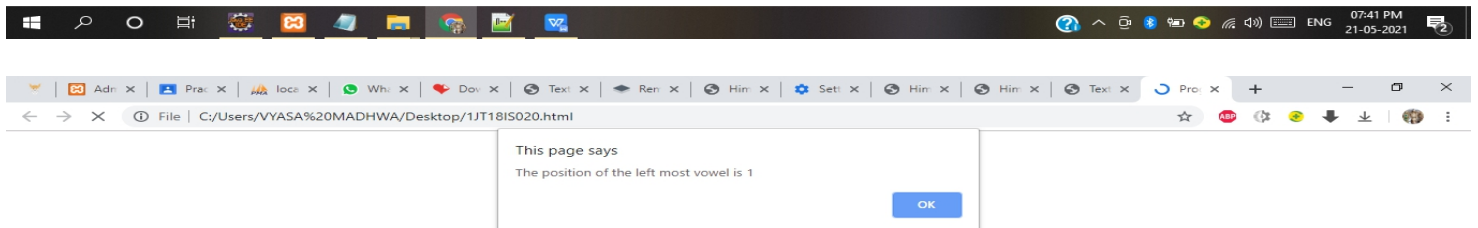
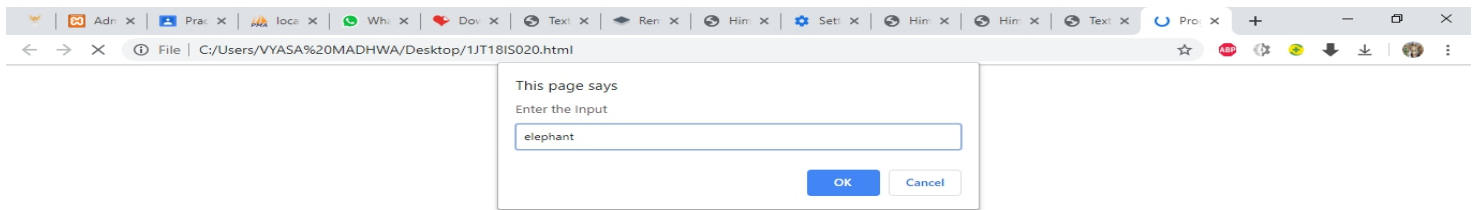
```
<!DOCTYPE HTML>
<html>
<head><title>Program-4</title></head>
<body>
<script type="text/javascript">
var str = prompt("Enter
the Input", "");if
(!isNaN(str))
{
var num, rev = 0, remainder; num = parseInt(str);
while (num != 0)
{
remainder =
num % 10;
num =
parseInt(num
/ 10); rev = rev
* 10 +
remainder;
}
alert("Reverse of " + str + " is " + rev);
}
else
{
str = str.toUpperCase();
for (var i = 0; i < str.length; i++) //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:



DS Prashanth
1JT18IS020



Test Cases

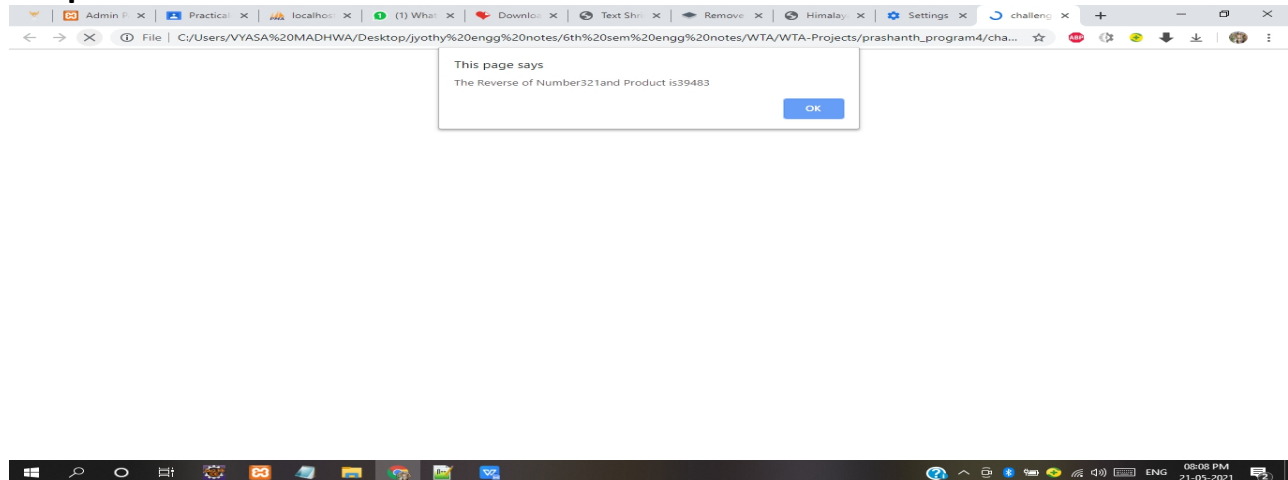
Test No	Test Case	Expected Output	Output Obtained
1. Integer value: Text value:	123456 acb	1.654321 2.The position of the left most vowel is 1	1.654321 2.The position of the left most vowel is 1
2.Negative Integer value: Text Value:	-123456 acb	1. Reverse of -123456 is -654321 2. The position of the left most vowel is 1	1. Reverse of -123456 is -654321 2. The position of the left most vowel is 1
3. Integer Value: Alphanumerical value:	124 2ac	1.421 2.The position of the left most vowel is 2	1.421 2.The position of the left most vowel is 2
4. Integer Value: Non vowel string:	1.234 2.gfh	1. Reverse of 234 is 432 2. No vowel found in the entered string	1. Reverse of 234 is 432 2. No vowel found in the entered string
5 .Test case of choice	1.2gh3	1. No vowel found in the entered string	1. No vowel found in the entered string

Challenge Program:

2. Reverse of Number and Product of the same :

```
<!DOCTYPE html>
<html>
<head>
</head>
<body>
<script>
const num = prompt("Enter the Number");
const reverse = (num) =>
parseInt(String(num)
.split(""))
.reverse()
.join(""), 10);
window.alert("The Reverse of Number" + reverse(num) + "and Product is" +
reverse(num)* num);
</script></body></html>
```

Output:



3. Counts the number of vowels within a string

```
<!DOCTYPE html>
<html>
  <head>
    <meta charset=utf-8 />
    <title>Counts the number of vowels within a string</title>
  </head>
  <body>
    <p id="demo"></p>
    <script>
function countVowel(str) {
  const count = str.match(/[aeiou]/gi).length;
  return count;
}
const string = prompt('Enter a string: ');
const result = countVowel(string);
  window.alert("The Vowels in The String are" +result);

</script>
</body>
</html>
```

Output:

