

WEB TECHNOLOGY AND IT'S APPLICATIONS

Assignment:04

PROGRAM:04

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))) //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);
}

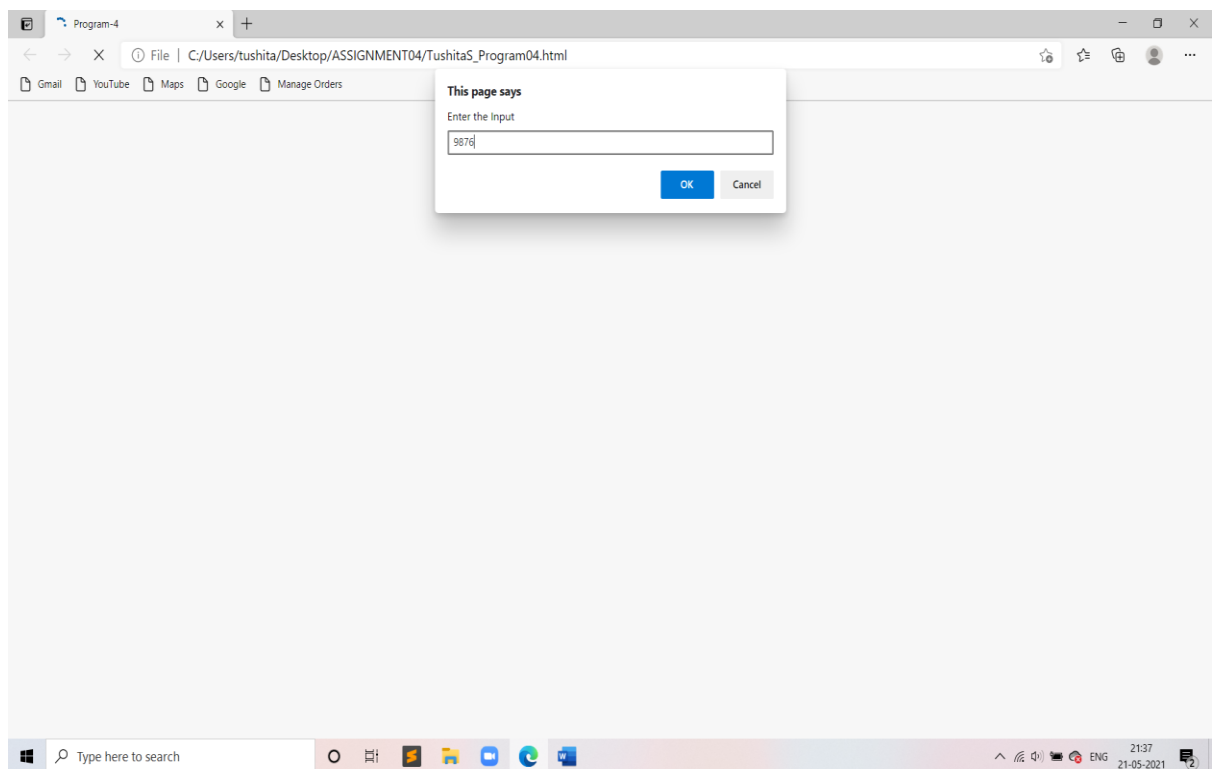
else

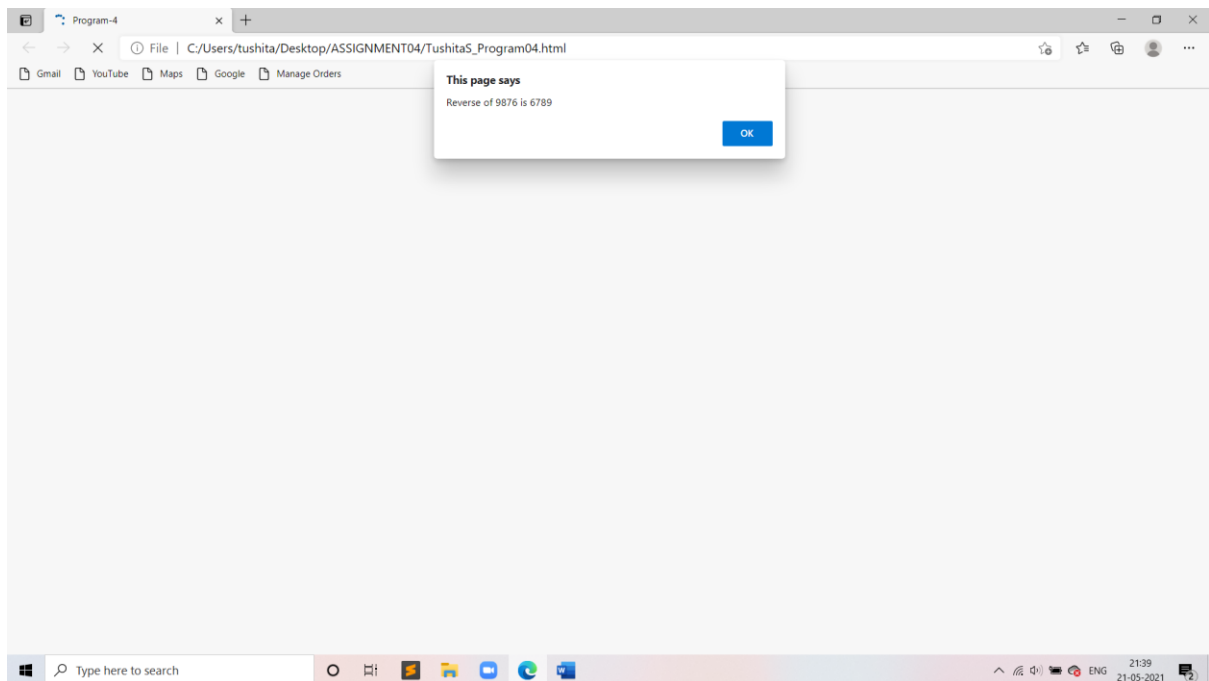
{
str = str.toUpperCase();
for (var i = 0; i < str.length; i++) //0,1,2,3
{
var chr = str.charAt(i);
if (chr == 'A' || chr == 'E' || chr == 'I' || chr == 'O' || chr == 'U')
break;
```

```
}  
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>
```

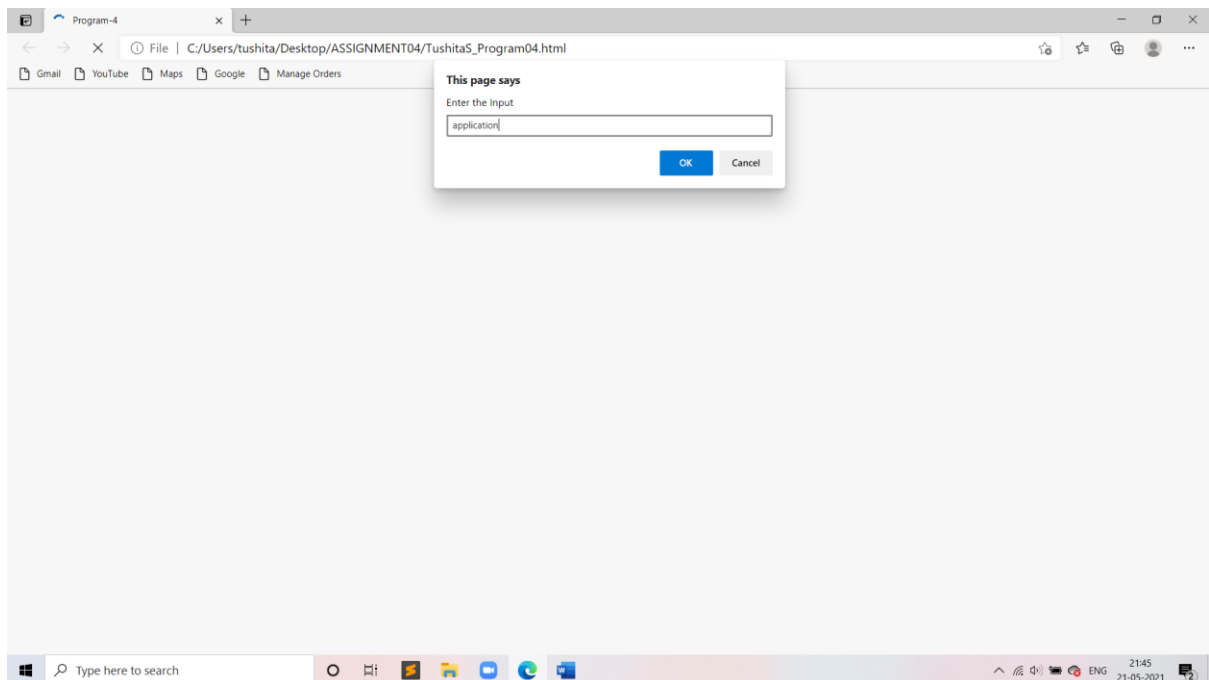
OUTPUT:

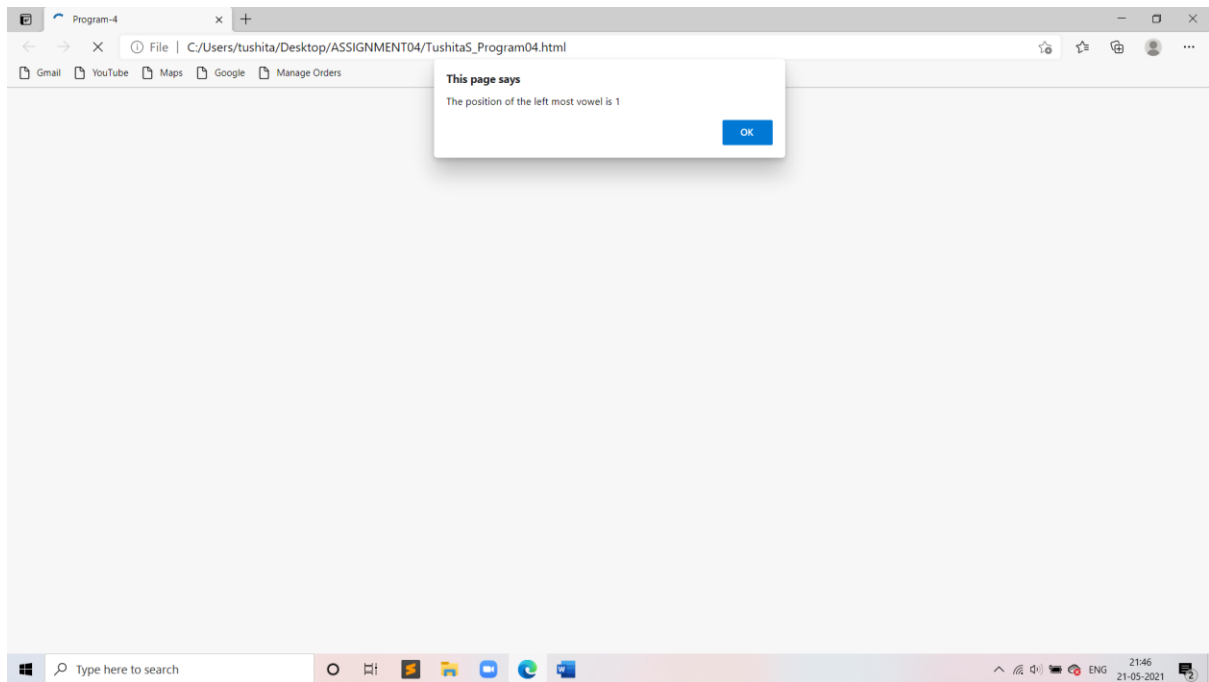
1. OUTPUT FOR INTEGER VALUES.





2. OUTPUT FOR STRING.





TEST CASES

Test No.	Test Case	Expected Output	Output Obtained
1	Integer Value: 5678 Text Value: application	Reverse of 5678 is 8765 The position of the left most vowel is 1	Reverse of 5678 is 8765 The position of the left most vowel is 1
2	Negative Integer value: -655 Text Value: hello	Reverse of -655 is -556 The position of the left most vowel is 2	Reverse of -655 is -556 The position of the left most vowel is 2

3	Integer Value: 732 Alpha numerical value: you64	Reverse of 732 is 237 The position of the left most vowel is 2	Reverse of 732 is 237 The position of the left most vowel is 2
4	Integer Value: 25.45 Non vowel string: rhythms	Reverse of 25.45 is 52 No vowel found in the entered string	Reverse of 25.45 is 52 No vowel found in the entered string
5	Test case of choice: 26.tushi	The position of the left most vowel is 5	The position of the left most vowel is 5

CHALLENGE:

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
</head>
```

```
<body>
```

```
<script>
```

```
const num = prompt("Enter the Number");
```

```
const reverse = (num) => parseInt(String(num)
```

```
.split("")
```

```
.reverse()
```

```
.join(""), 10);
```

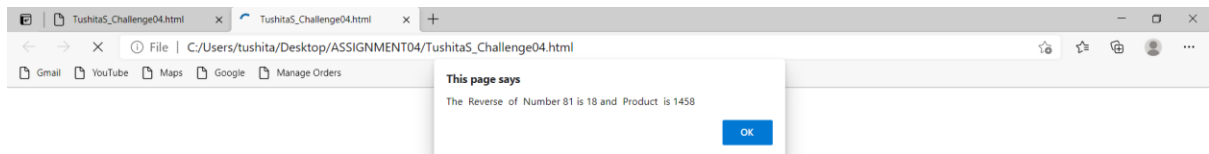
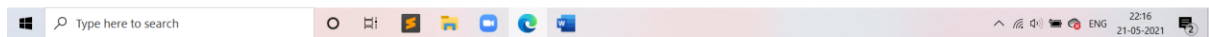
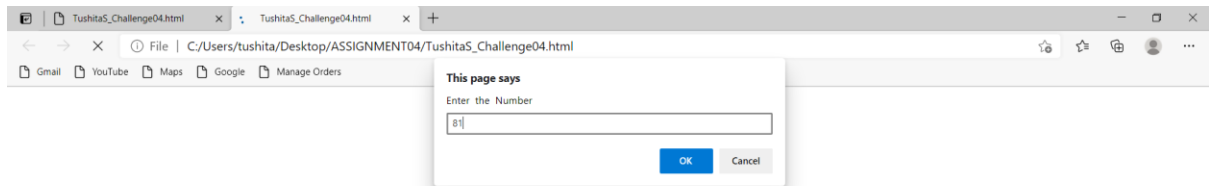
```
window.alert("The Reverse of Number " + num + " is " + reverse(num) + " and Product is " +  
reverse(num)* num);
```

```
</script>
```

```
</body>
```

```
</html>
```

OUTPUT:



Code to count the number of vowels within the 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 the string: ');const result = countVowel(string);

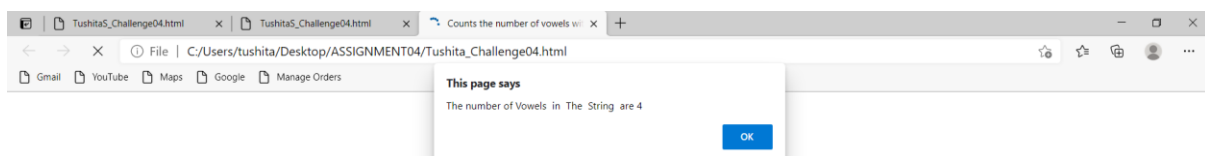
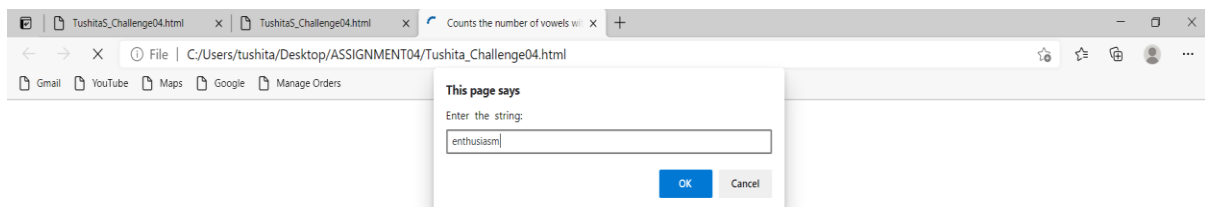
window.alert("The number of Vowels in The String are " +result);

</script>

</body>

</html>
```

Output:



TEST CASES:

Test No.	Test Case	Expected Output	Output Obtained
1	Number: 543	The Reverse of Number 543 is 345 and Product is 187335	The Reverse of Number 543 is 345 and Product is 187335
2	Number: 111	The Reverse of Number 111 is 111 and Product is 12321	The Reverse of Number 111 is 111 and Product is 12321
3	Number: 060	The Reverse of Number 060 is 60 and Product is 3600	The Reverse of Number 060 is 60 and Product is 3600
4	Number: 000	The Reverse of Number 000 is 0 and Product is 0	The Reverse of Number 000 is 0 and Product is 0
5	String: python	The number of Vowels in The String are 1	The number of Vowels in The String are 1
6	String: you54a	The number of Vowels in The String are 3	The number of Vowels in The String are 3
7	String: encapsulation	The number of Vowels in The String are 6	The number of Vowels in The String are 6
8	String: paris	The number of Vowels in The String are 2	The number of Vowels in The String are 2