

#### **Program 4:**

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

**a. Parameter: A string**

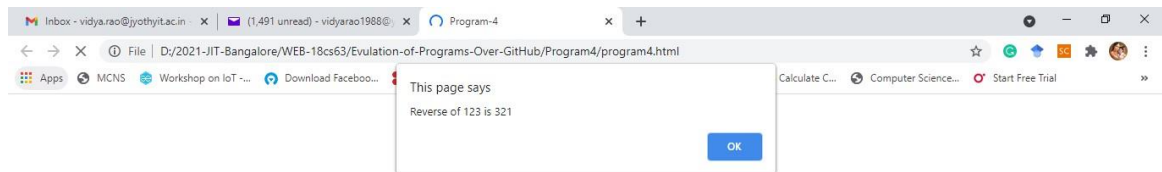
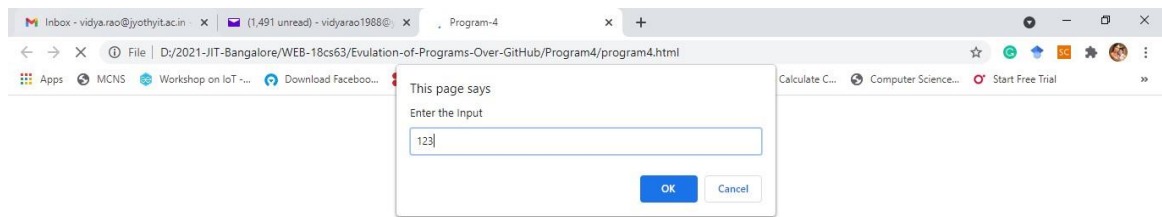
**b. Output: The position in the string of the left-most vowel**

**c. Parameter: A number**

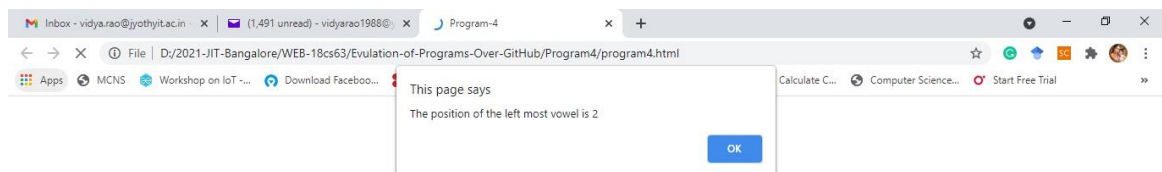
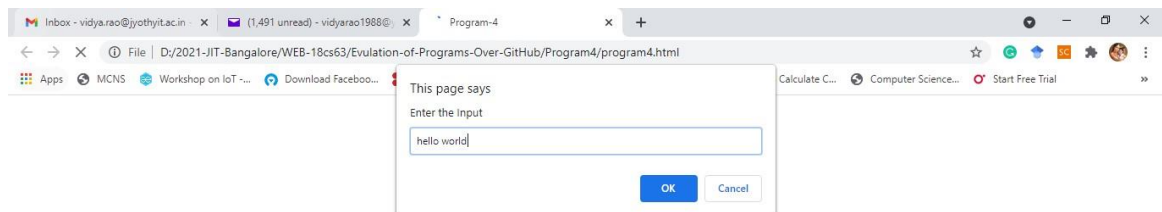
**d. Output: The number with its digits in the reverse order**

```
<!DOCTYPE HTML>
<html>
<head>
  <title>Reversing Number & Position of VoWel</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: Integer Value Test



## Output: String Value Test

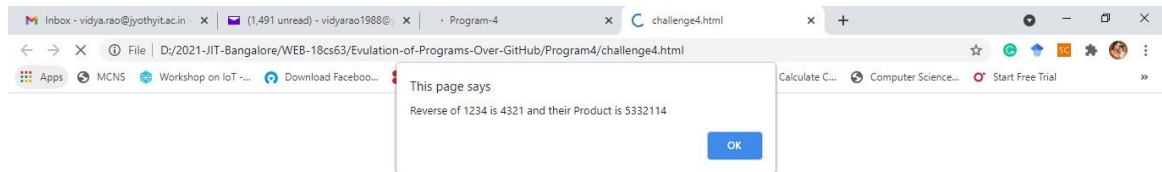
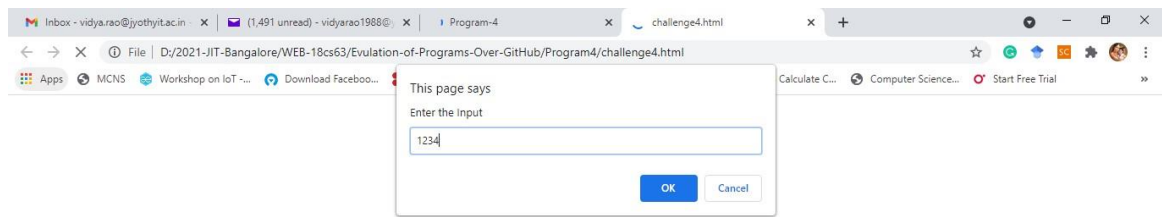


## Program 4 Challenge:

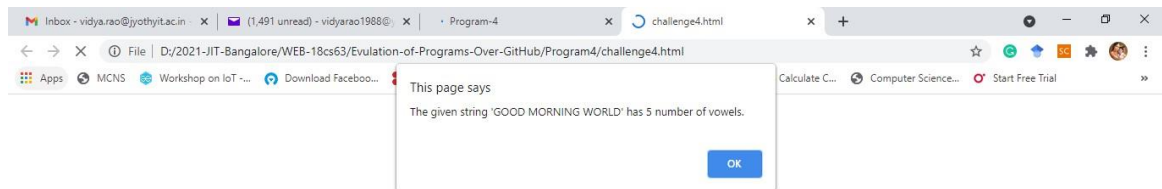
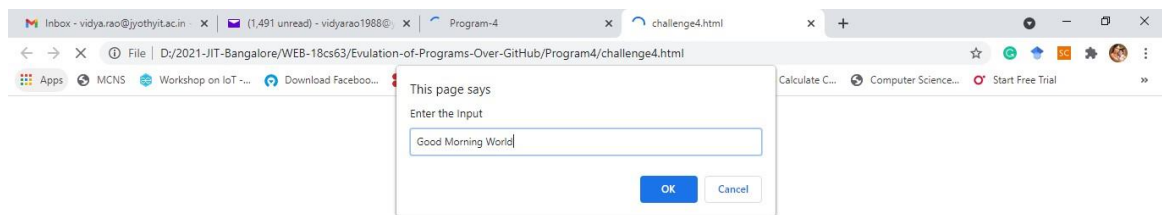
```
<!DOCTYPE HTML>
<html>
  <head>
    <title>Reverse, Product & Vowel</title>
  </head>
  <body>
    <script type="text/javascript">
      var str = prompt("Enter the Input", "");
      if (!(isNaN(str)))
      {
        var num, rev = 0, remainder;
        num = parseInt(str);
        while (num != 0)
        {
          remainder = num % 10;
          num = parseInt(num / 10);
          rev = rev * 10 + remainder;
          prod = str * rev;
        }
        alert("Reverse of " + str + " is " + rev + " and their Product is " + prod);
      }
      else
      {
        str = str.toUpperCase();
        function vowel_Count(str)
        {

          const count = str.match(/[aeiou]/gi).length;
          return count
        }
        alert("The given string '" + str + "' has " + vowel_Count(str) + " number of
vowels.")
      }
    </script>
  </body>
</html>
```

## Challenge Output:



**Reversing Integer input and showing their Product.**



**Showing no. of Vowels in a Input String.**