# Experiment No.

**Student Name   :**_____ **PRN**_____

**Course Teacher: Mrs. Sharayu Bonde and Mrs Priyanka Gadade, Govt. College of**
                            **Engg, Jalgaon**

**Aim:** Develop and demonstrate an XHTML file that includes Javascript script that uses functions for the following problems:
a)       Parameter: A string
          Output: The position in the string of the left-most vowel
b)       Parameter: A number
          Output: The number with its digits in the reverse order

Objective :-
To get acquainted with javascript procedures and usage of regular expressions in javascript.

**Procedure :-**

**Question 3a :-**
1. Declare the script tag as text/javascript in the beginning of the <body> of html program
2. Get the string from the user using prompt()
3. Validate input string (should be only alphabets, a - z) using the regular expression
   " /^[a-zA-Z]+$/ " and alert the user for invalid input using alert()
4. Convert the string to lowercase using toLowerCase()
5. Use indexOf(<vowel>) for each vowel to get the position of the vowel in the string.
6. Print the leftmost vowel i.e., print the lowest index got from indexof()


<!-------------------------------XHTML CODE-- ----------------------------->
<?xml version="1.0" encoding="utf-8"?>

<head> <title> Left most vowel </title> </head>
<body>
<script type="text/javascript">
function disp(str)
{
        var reg=/^[a-zA-Z]+$/
        if(!str.value.match(reg))
        {
                alert("Enter alphabets only!")
                return false
        }
        var i,b
        b=str.value

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```
            for(i=0;i<str.value.length;i++)
            {
                    switch(b[i])
                    {
                            case "a":
                            case "A":
                            case "e":
                            case "E":
                            case "i":
                            case "I":
                            case "o":
                            case "O":
                            case "u":
                            case "U":alert( "\'"+b[i]+"\' is the first vowel found in postion "+(i+1));
                            exit(0);
                            default: break;
                    }
            }
            if(i>=str.value.length) alert("No vowels found. :(")
    }
</script>
<form action="">
<h2> Finding the left most Vowel </h2>
<p>
String: <input type="text" name="str" />
<input type="button" value="Find" onclick="disp(str)" />
</p>
</form>
</body>
</html>

<!-- End of File →
```

**Question 3b :-**
1. Declare the script tag as text/javascript in the beginning of the <body> of html program
2. Get the number to be reversed from the user using prompt()
3. Validate input number (should be a positive number between 0 to 9) using the regular expression " /^[0-9]+$/ " and alert the user for invalid input using alert()
4. Reverse the number using modulus operation.
5. Use math.floor(number/10) to get the floor of number after division (used for reversing)
6. Display the reversed string using alert()

```
<!----------------------------XHTML CODE---------------------------->

<?xml version="1.0" encoding="utf-8"?>
<html>
<head>
        <title>Number reversal</title>
</head>
<body>
        <h1>Printing digits in reverse order</h1>
        <script type="text/javascript">
        function disp(str)
        {
                var n=0,r=0,res=0
                n=str.value
                if( n>0 || n==0 )
                {
                        while(n!=0)
                        {
                                r=n%10
                                n=Math.floor(n/10)
                                res=res*10+r
                        }
                        alert("The reverse of the number is: "+res)
                }
                else alert("Enter a valid number")
        }
        </script>
        <form>
        <p>
                Number: <input type="text" name="str" />
                <input type="button" value="Find" onclick="disp(str)" />
        </p>
        </form>
</body>
</html>
<!-- End of file →
```

**Name and Sign of Course Teacher**