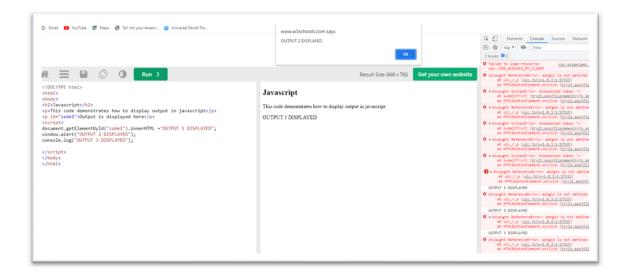
4.A. Understand the basic elements of javascript and implement script code in HTML.

```
AIM:
      To understand the basic elements of javascript and implement script code in
html.
I.
      CODE:
<!DOCTYPE html>
<html>
<body>
<h2>Javascript</h2>
This code demonstrates how to display output in javascript
Output is displayed here
<script>
//access html elements by id name
document.getElementById("code1").innerHTML ="OUTPUT 1 DISPLAYED";
//alert box can be used
window.alert("OUTPUT 2 DISPLAYED");
//message in console for debugging
console.log("OUTPUT 3 DISPLAYED");
</script></body>
</html>
OUTPUT:
```



```
II.
     CODE:
<!DOCTYPE html>
<html>
<body>
<h2>Javascript</h2>
This code demonstrates how to declare variablesin javascript
Output1 is displayed here
Output 2 is displayed here
Output3 is displayed here
Output4 is displayed here
Output5 is displayed here
<script>
// using var keyword;
var a=67;
var b=56;
document.getElementById("code1").innerHTML ="a + b =" + (a+b);
```

```
//using let keyword;
let c="apple";
let d="mango";
document.getElementById("code2").innerHTML ="c + d =" + (c+d);
//constant value using const keyword;
const x=34;
document.getElementById("code3").innerHTML = "constant value of x = +x;
//declaring multiple variables In a single line;
let u=34,v=35,w=36;
document.getElementById("code4").innerHTML ="( u-v ) + w =" + (u-v)+w;
//declaring an undefined variable;
let new$variable;
document.getElementById("code5").innerHTML =new$variable;
</script>
</body>
</html>
OUTPUT:
  clDOCTYPE html>
chody>
chotnl>
chody>
cp>This code demonstrates how to display output in javascript
cp>This code demonstrates how to display output in javascript
cp id="code">output is displayed here
cy id="code">output is 
                                                                                                                                                                                                                                                                          Javascript
                                                                                                                                                                                                                                                                          This code demonstrates how to display output in javascript
                                                                                                                                                                                                                                                                         constant value of x =34
                                                                                                                                                                                                                                                                         (u-v)+w=-136
    document.getElementById("code1").innerHTML ="a + b =" + (a+b);
let c="apple";
let d="mango";
                                                                                                                                                                                                                                                                         undefined
    act u- mango;
document.getflementById("code2").innerHTML ="c + d =" + (c+d);
const x-34;
document.getflementById("code3").innerHTML ="constant value of x =" + x;
let u-34, v-35, w-36;
 let u=34,y=35,w=36; document.getElementById("code3").innerHTML ="constant value of x =" + document.getElementById("code4").innerHTML ="( u-v ) + w =" + (u-v)+w; document.getElementById("code5").innerHTML =new$variable; </script> </body> </hbdy> </hbd> </hbd> </hbd> </hbd> </hbd> </hbd> </hbd> </hbd> </hbd>
```

```
III.
      CODE:
<!DOCTYPE html>
<html>
<body>
<h2>Defining functions in javascript</h2>
Function to convert fahrenheit to Celsius
function call is implemented here
<script>
//function definition;
function to Celsius(f) {
 return (5/9) * (f-32); }
//function call;
document.getElementById("funccall").innerHTML = toCelsius(98.4);
</script>
</body>
</html>
OUTPUT:
                  Run >
                                                                Result Size: 753 x 595
```



```
IV.
     CODE:
<!DOCTYPE html>
<html>
<body>
<h2>CONDITIONAL STATEMENTS IN JAVASCRIPT</h2>
Grades based on marks:
Grade is displayed here
<script>
//to get input from user
var mark = prompt("Enter your mark:");
//to check a condition
if (mark > 90)
grade = "O";
} //to check multiple conditions
else if (mark>80) {
 grade = "A+";
} else if (mark>70) {
grade = "A";
} else if (mark>60) {
grade = "B+";
} else if (mark>50) {
 grade ="B";
} else {
 grade = "REAPPEARANCE"}
// to display the output based on the mark
```

```
document.getElementById("grade").innerHTML ="Your grade is "+ grade;
</script>
</body>
</html>
```

## **OUTPUT:**

```
CONDITIONAL STATEMENTS IN JAVASCRIPT

| charter | charte
```

```
V. CODE:
<!DOCTYPE html>
<html>
<html>
<body>
<h2>For loop in javascript</h2>
This code demonstrates looping in javascript
Output is displayed here
<script>
var string = prompt("Enter any word:");
let text="";
//iterate through each letter of the input string;
for (i = 0; i < string.length; i++) {
    text += string[i] + "<br/>br>";
```

```
document.getElementById("code1").innerHTML = text;}
</script>
</body>
</html>
OUTPUT:
```

## Run > Get your own website Result Size: 753 x 595 <!DOCTYPE html> **Javascript** <html> <body> <h2>Javascript</h2> This code demonstrates how to display output in javascript This code demonstrates how to display output in javascript Output is displayed here <script> var string = prompt("Enter any word:"); let text=""; for (i = 0; i < string.length; i++) { text += string[i] + "<br>"; document.getElementById("code1").innerHTML = text;} </body>

## **RESULT:**

Basic concepts in javascript coding such as **printing the output, variable declaration, defining functions, conditional statements** and **looping** are studied, understood and the script code is implemented in HTML code.