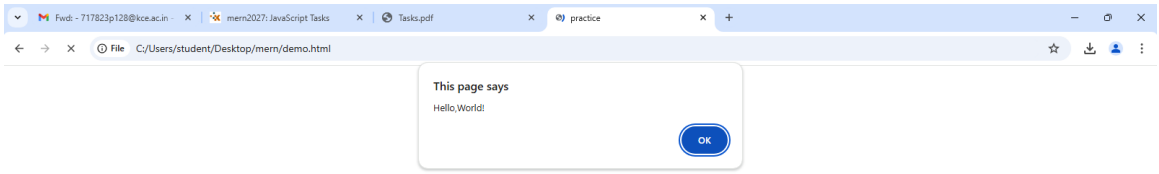
An Introduction to JavaScript:

TASK 1

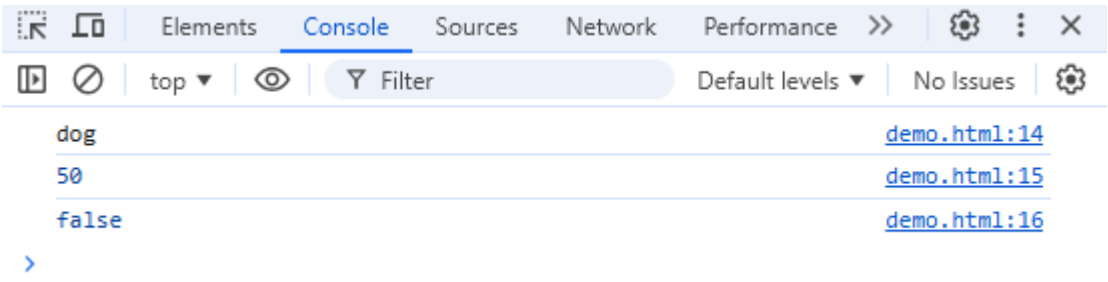
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
        alert("Hello,World!");
    </script>
</body>
</html>
```



TASK 2

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>practice</title>
</head>
<body>
```

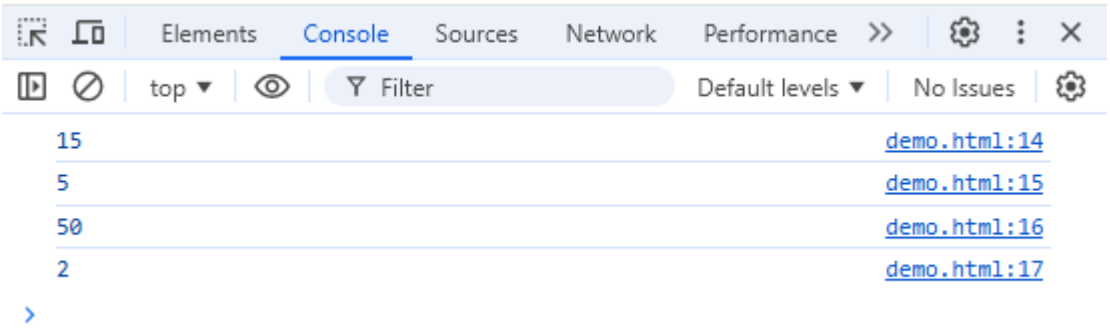
```
    <script>
        var name = "dog";
        const number = 50;
        let value = false;
        console.log(name);
        console.log(number);
        console.log(value);
    </script>
</body>
</html>
```



TASK 3

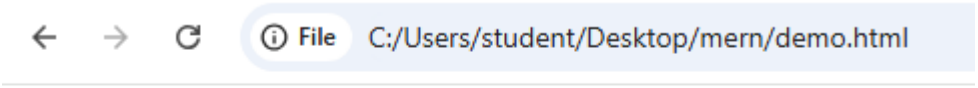
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>practice</title>
</head>
<body>
    <script>
        var a = 10;
        var b = 5;
        console.log(a+b);
        console.log(a-b);
```

```
        console.log(a*b);
        console.log(a/b);
    </script>
</body>
</html>
```



TASK 4

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
 <title>practice</title>
</head>
<body>
    <script>
      var a = "shell";
        var b = "nut";
        document.writeln(a+b +"<br>");
        var a = "black";
        var b = "board";
        document.writeln(a+b);      </script>
</body>
</html>
```



shellnut
blackboard

TASK 5

```
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <meta name="viewport" content="width=device-width, initial-scale=1.0">

    <title>practice</title>

</head>

<body>

    <script>

        document.writeln(typeof"hello"+"<br>");

        document.writeln(typeof 8 +"<br>");

        let value = true;

        document.writeln(typeof value);

    </script>

</body>

</html>
```

string
number
boolean

2. Code structure:

TASK 6

// This is a single-line comment

/*

This is a multi-line comment.

Multi-line comments are used forlarger descriptions */

Difference:

Single-line comments are used for small notes.

Multi-line comments are used for larger descriptions.

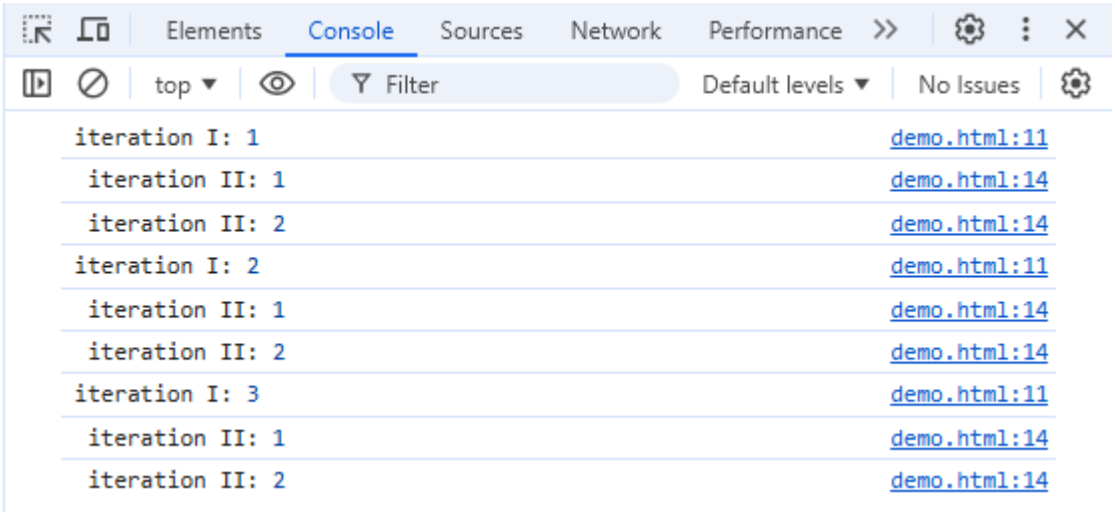
TASK 7

No differences

In some cases,we can see differences like using functions

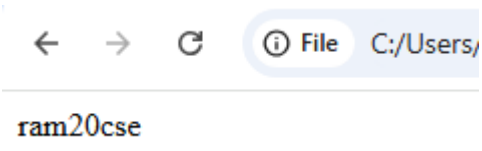
TASK 8

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
    for (let i = 1; i <= 3; i++) {
        console.log(" iteration I:", i);

        for (let j = 1; j <= 2; j++) {
            console.log("    iteration II:", j);
        }
    }
    </script>
</body>
</html>
```



TASK 9

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
        let name = "ram" , age = 20 , dept = "cse";
        document.writeln(name,age,dept);
    </script>
</body>
</html>
```



TASK 10

1.

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
    <script>
        console.log("hello");
        </script>
</head>
<body>
</body>
</html>
```

2.

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
    console.log("hello");
    </script>
</body>
</html>
```

No difference in the output

The modern mode, “use strict”, Variables

Variables:

TASK 16

```
<!DOCTYPE html>
<html lang="en">
```

```
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
        var name = "dog";
        const number = 50;
        let value = false;
        console.log(name);
        console.log(number);
        console.log(value);
    </script>
</body>
</html>
```

USES

Use when reassignable variable

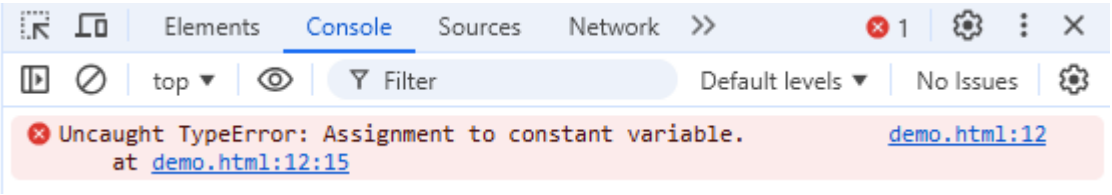
constant value should not change

Use when reassignable variable

TASK 17

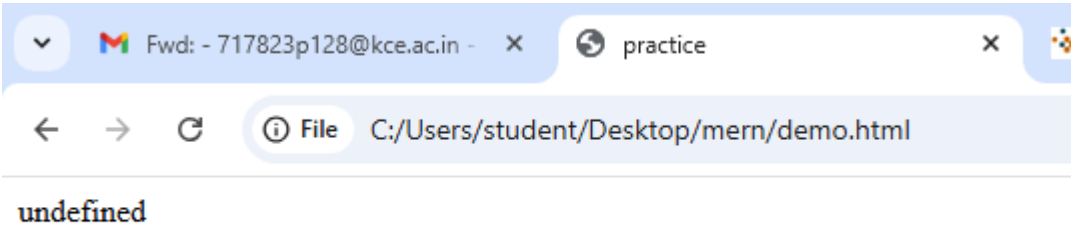
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
```

```
        const value = 25;
        value = 30;
        document.writeln(value);
    </script>
</body>
</html>
```



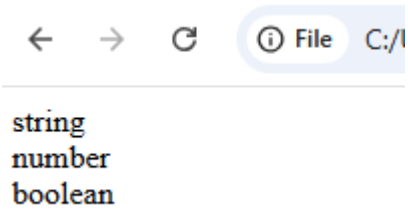
TASK 18

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
        let score;
        document.writeln(score);
    </script>
</body>
</html>
```



TASK 19

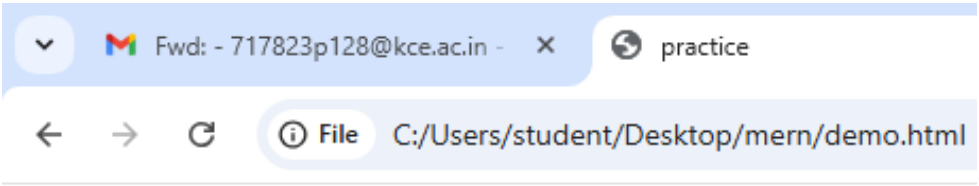
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
    <script>
        document.writeln(typeof"hello"+"<br>");
        document.writeln(typeof 8 +"<br>");
        let value = true;
        document.writeln(typeof value);
    </script>
</body>
</html>
```



TASK 20

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>practice</title>
</head>
<body>
```

```
        <script>
            var x = "run";
            var z = x;
            document.writeln(x);
            document.writeln(z);
        </script>
</body>
</html>
```



run run