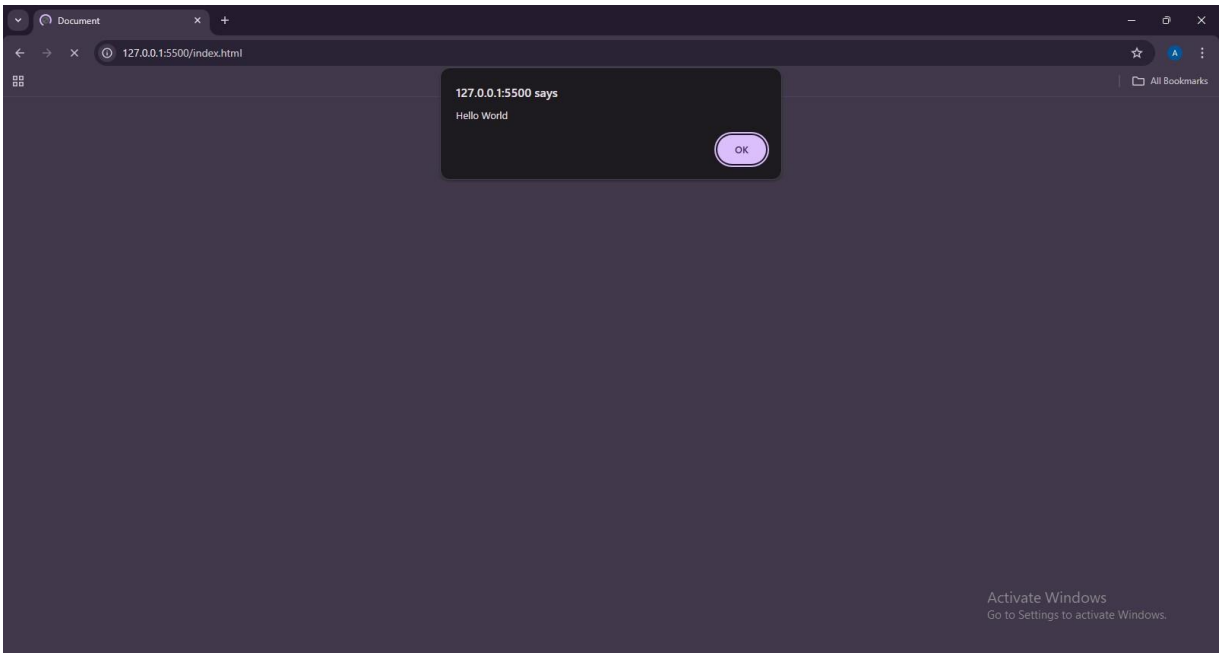
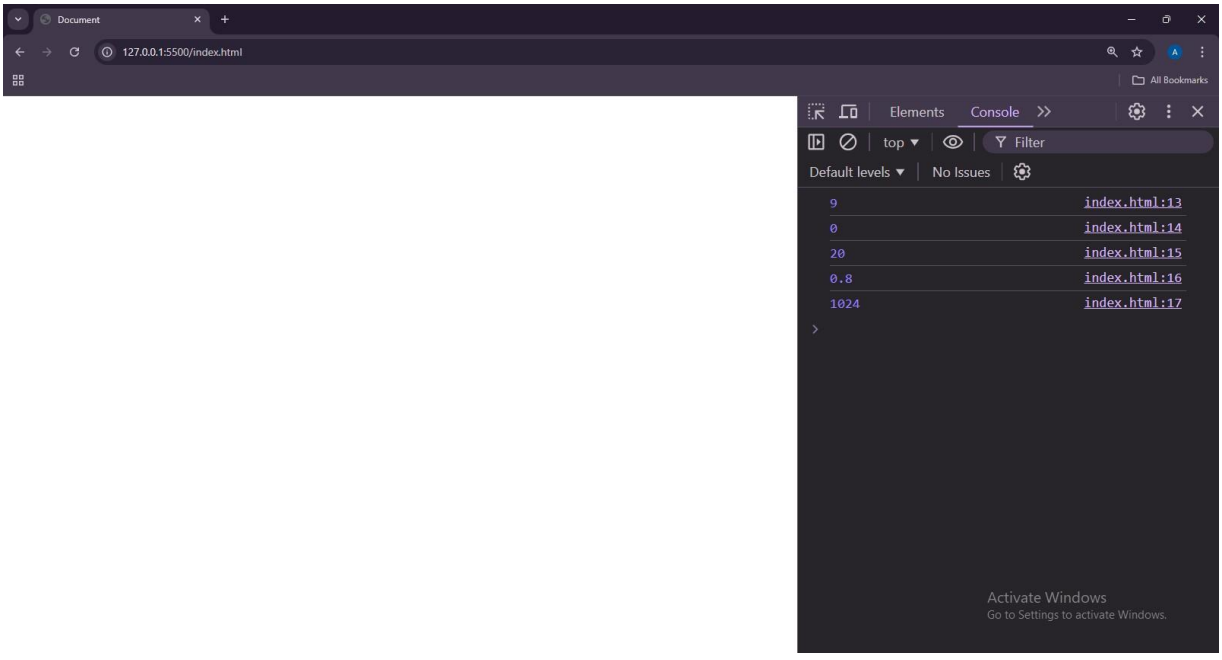
TASK 1

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



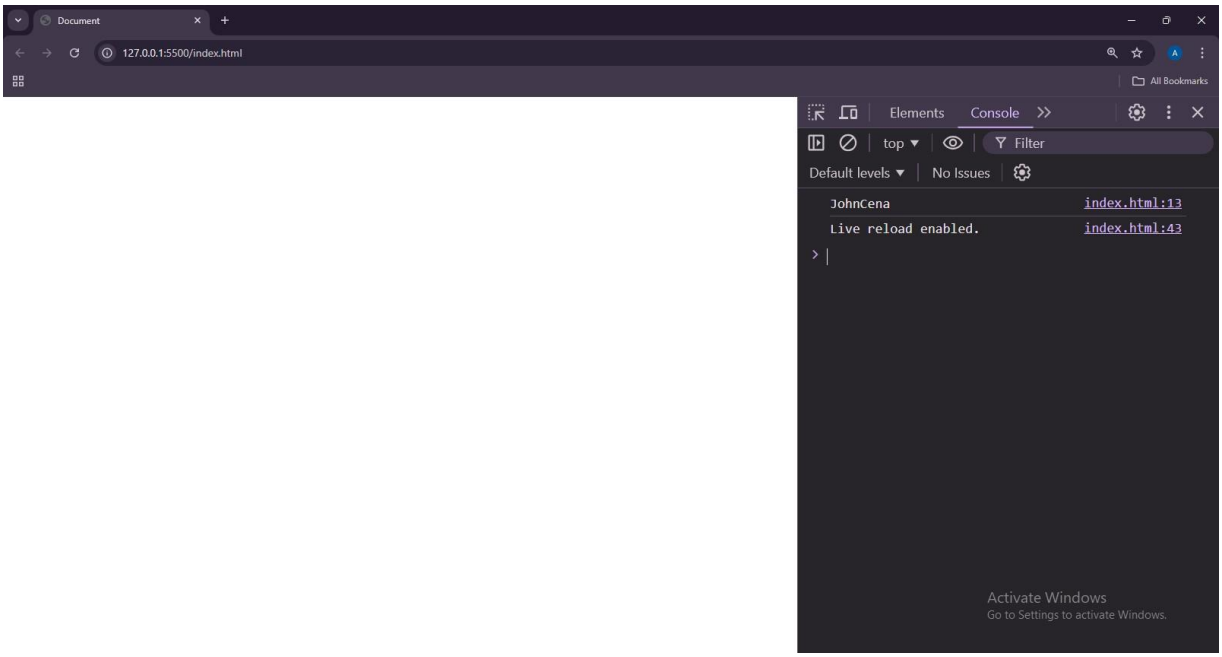
TASK 2

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let num1 = 4; let num2 =
        5;

        console.log(num1 + num2);
        console.log(num2 - num2);
        console.log(num1 * num2);
        console.log(num1 / num2);
        console.log(num1 ** num2);
    </script>
</body>
</html>
```



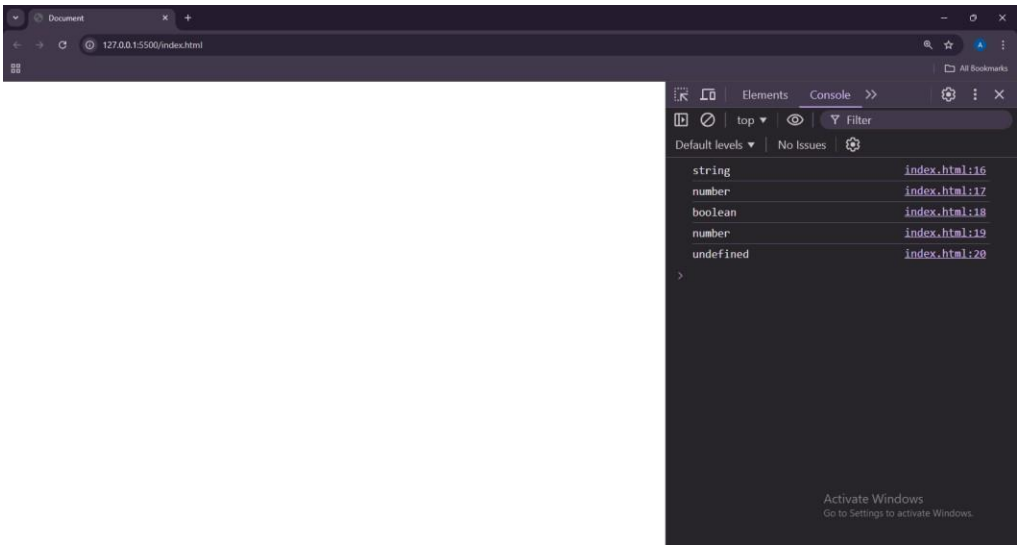
TASK 3

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let firstName = "John"; let
        lastName = "Cena";

        console.log(firstName + lastName);
    </script>
</body>
</html>
```



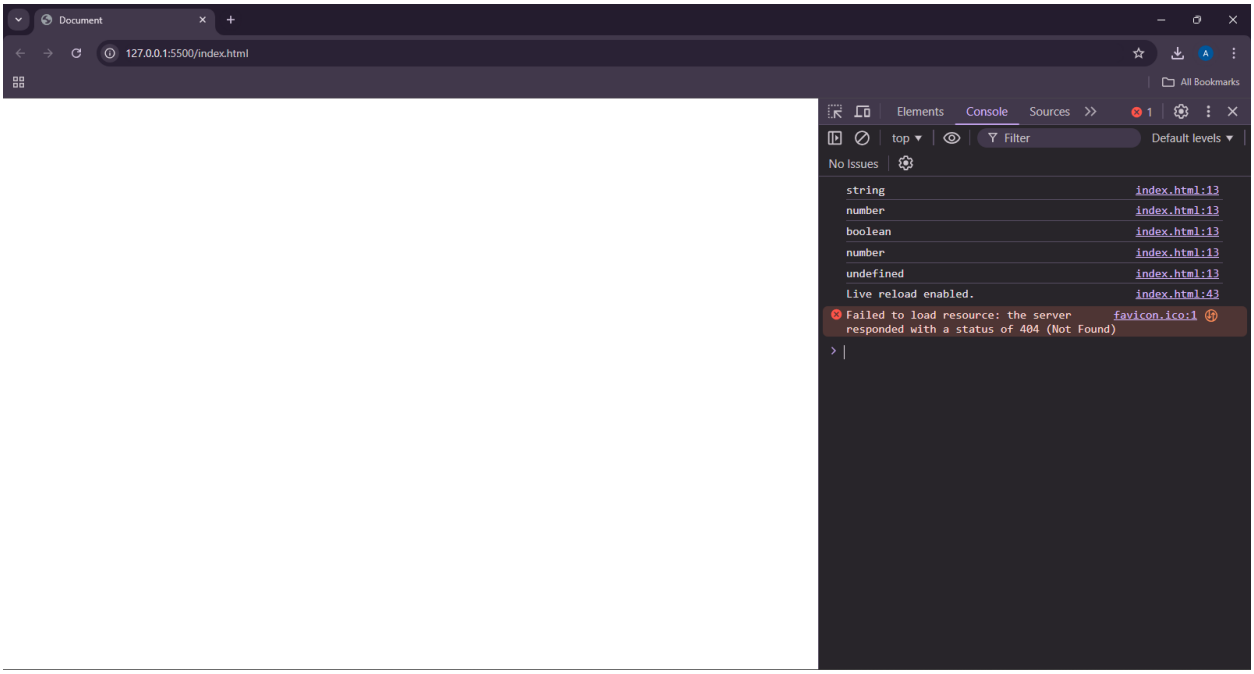
TASK 4

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let firstName = "John"; let number
        = 5656;
        let isAlive = false; let float =
        56.56; let notdec;

        console.log(typeof firstName);
        console.log(typeof(number));
        console.log(typeof isAlive);
        console.log(typeof(float));
        console.log(typeof notdec);
    </script>
</body>
</html>
```



TASK 5

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let firstName = "John"; let number
        = 5656;
        let isAlive = false; let float =
        56.56; let notdec;

        console.log(typeof firstName);
        console.log(typeof(number));
        console.log(typeof isAlive);
        console.log(typeof(float));
        console.log(typeof notdec);
    </script>
</body>
</html>
```

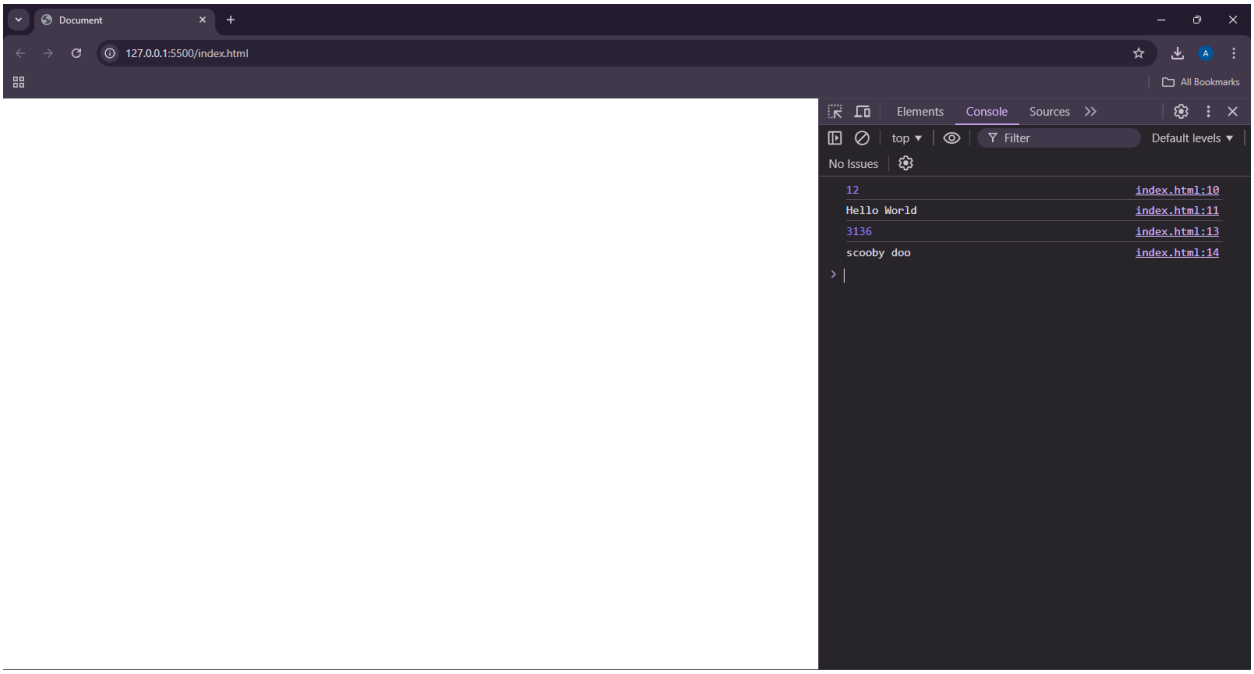


TASK 6

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

        /* This is multi
            line comment
        */
    </script>
</body>
</html>
```

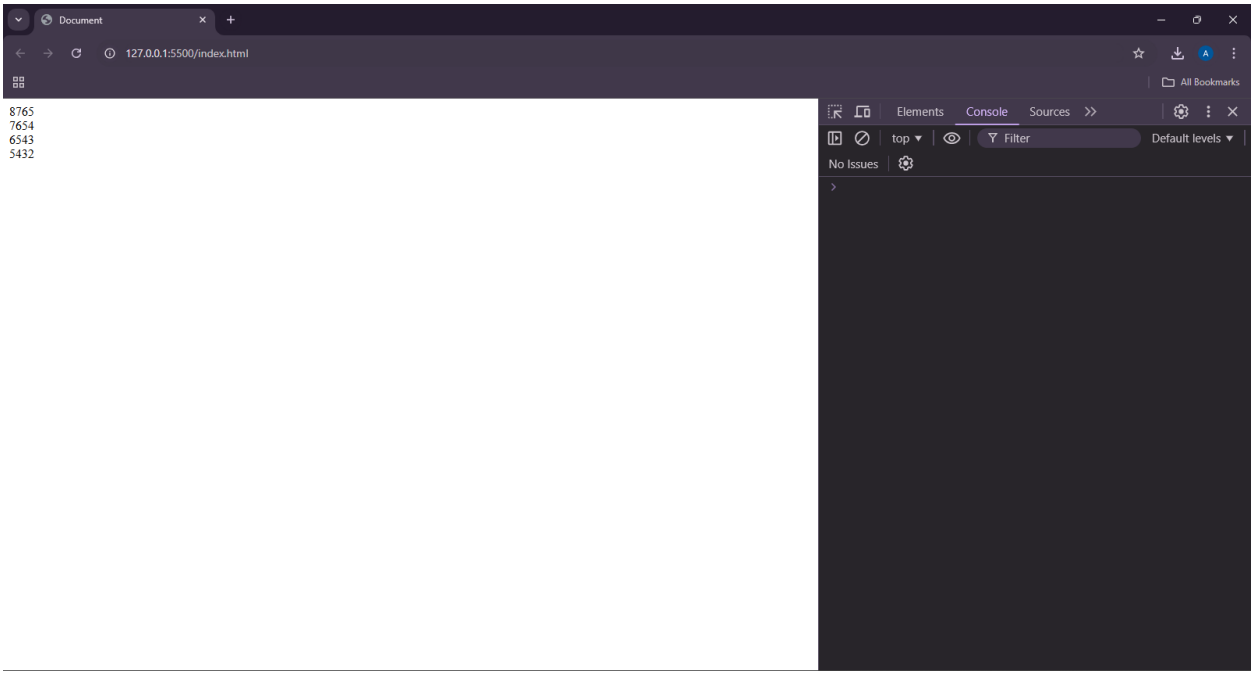
TASK 7

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        console.log(5 + 7);
        console.log("Hello World");

        console.log(56 * 56);
        console.log("scooby doo")
    </script>
</body>
</html>
```



TASK 8

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let n = 4;
        for(let i = 0; i < n; i++){
            for(let j = 0; j < n; j++){
                document.write(Math.max(Math.abs(i - n) + Math.abs(j - n)))
            }
            document.write("<br>");
        }
    </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>Document</title>
</head>
<body>
    <script>
        let a = 5, b = 6, c = 7;
        let arr = [a, b, c];
        for(let num of arr){
            document.write(num + " ");
        }
    </script>
</body>
</html>
```

5 6 7

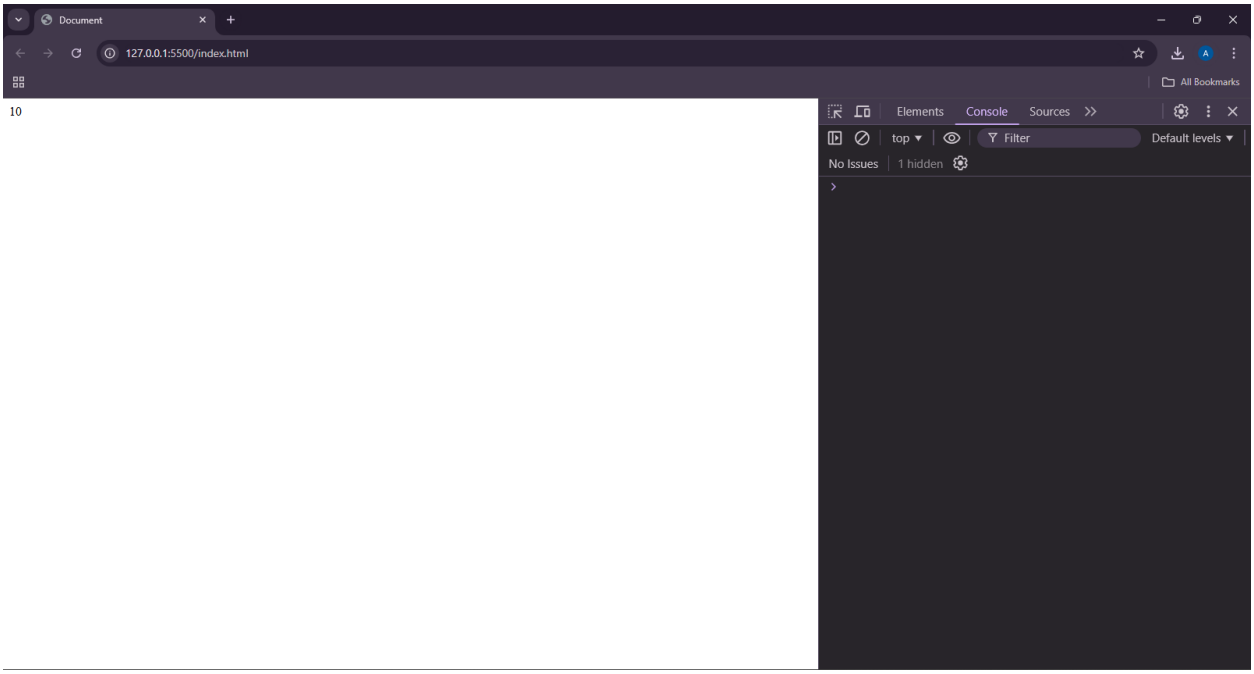
TASK 10

```
<script>
    document.write("JAVASCRIPT OUTSIDE HTML TAG" + "<br>");
</script>

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        document.write("JAVASCRIPT INSIDE BODY TAG");
    </script>
</body>
</html>
```

JAVASCRIPT OUTSIDE HTML TAG
JAVASCRIPT INSIDE BODY TAG

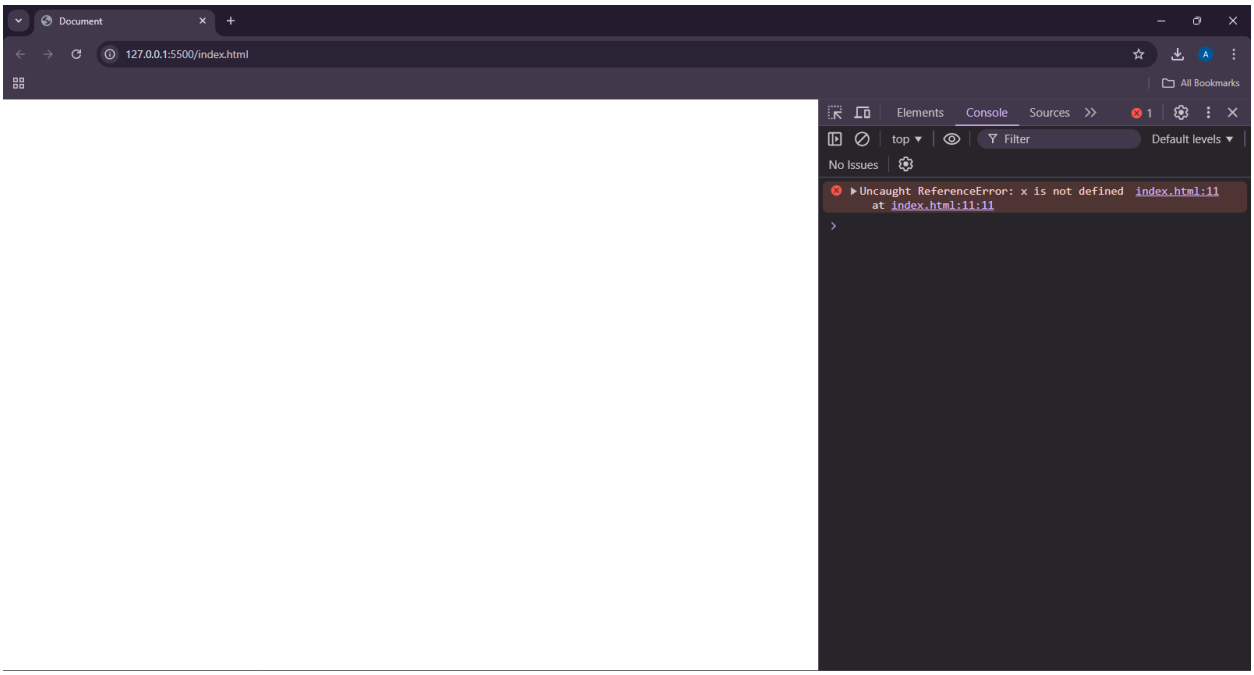
TASK 11

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        x = 10;
        document.write(x);
    </script>
</body>
</html>
```



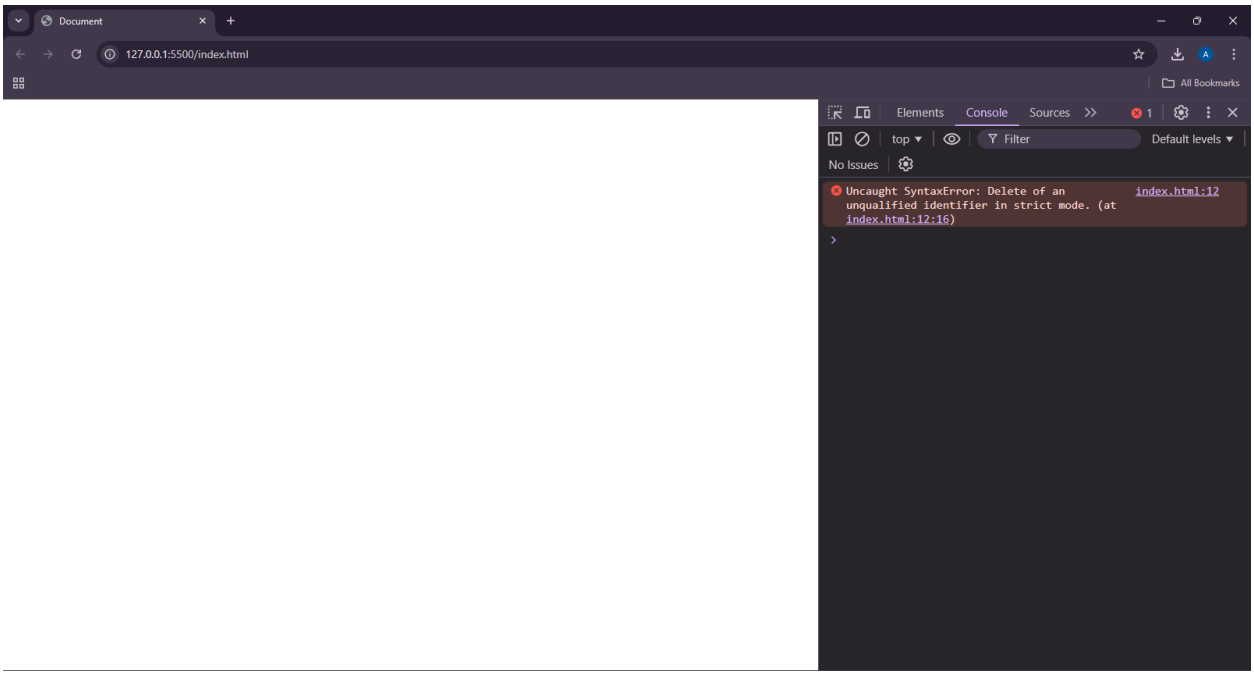
TASK 12

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        'use strict'
        x = 10;
        document.write(x);
    </script>
</body>
</html>
```



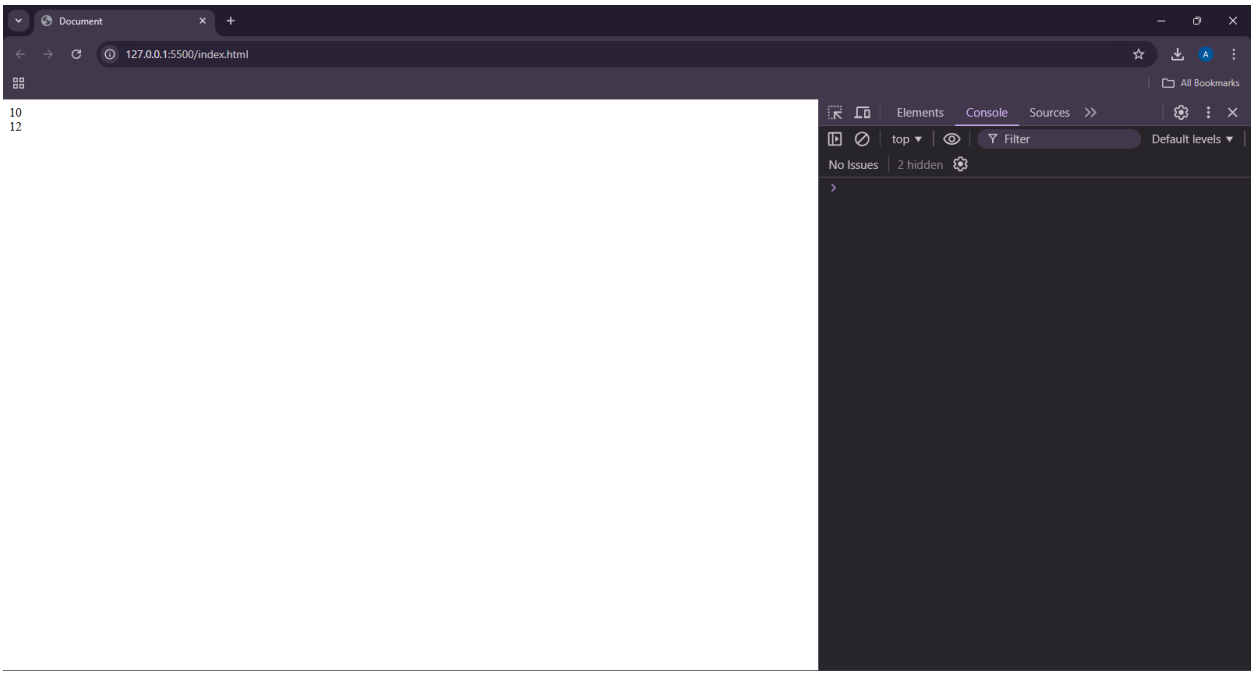
TASK 13

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        'use strict'
        let x = 10;
        delete x;
    </script>
</body>
</html>
```



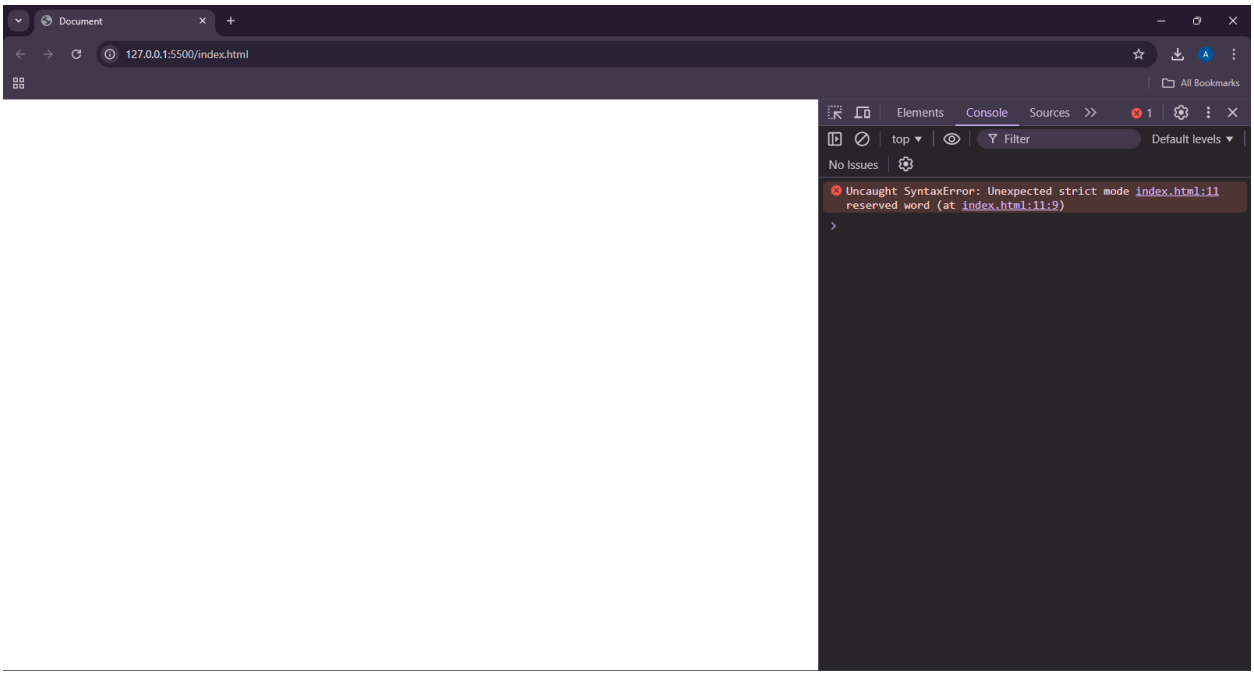
TASK 14

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        x = 10;
        document.write(x + "<br>");

        'use strict';
        y = 12;
        document.write(y + "<br>");
    </script>
</body>
</html>
```



TASK 15

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        'use strict';
        let function = 56;
        console.log(function)
    </script>
</body>
</html>
```

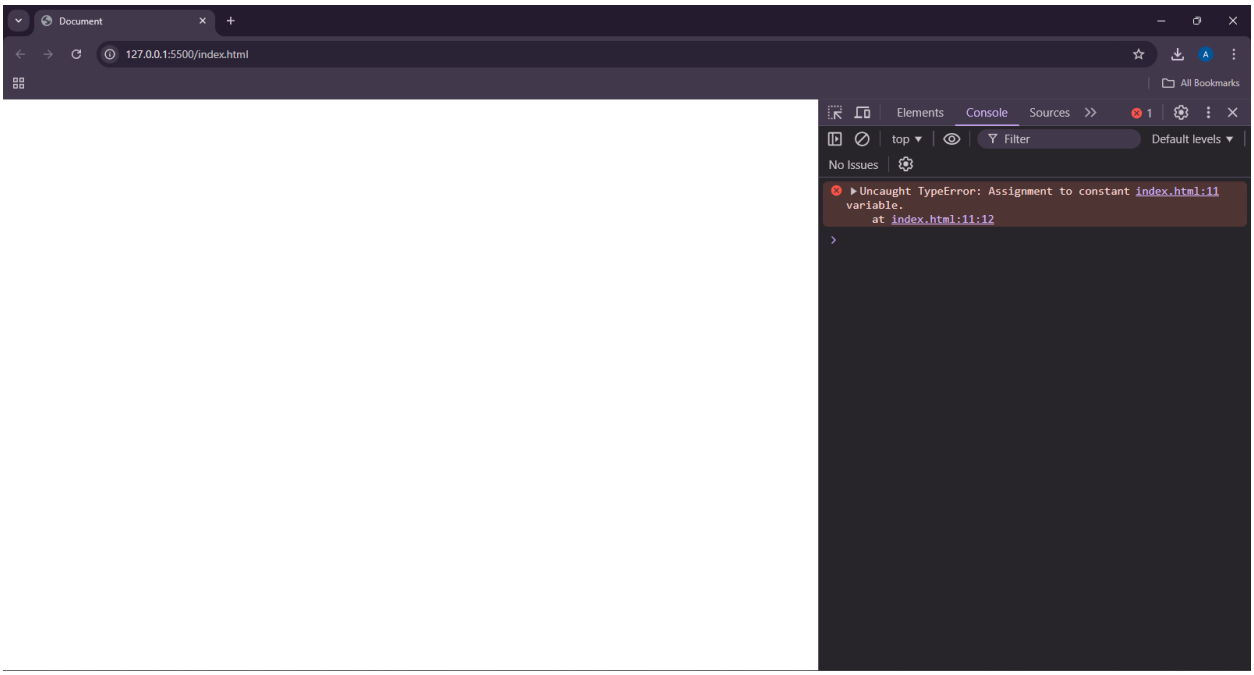


TASK 16

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = 10;
        var b = 56;
        const C = 3.14;
    </script>
</body>
</html>
```

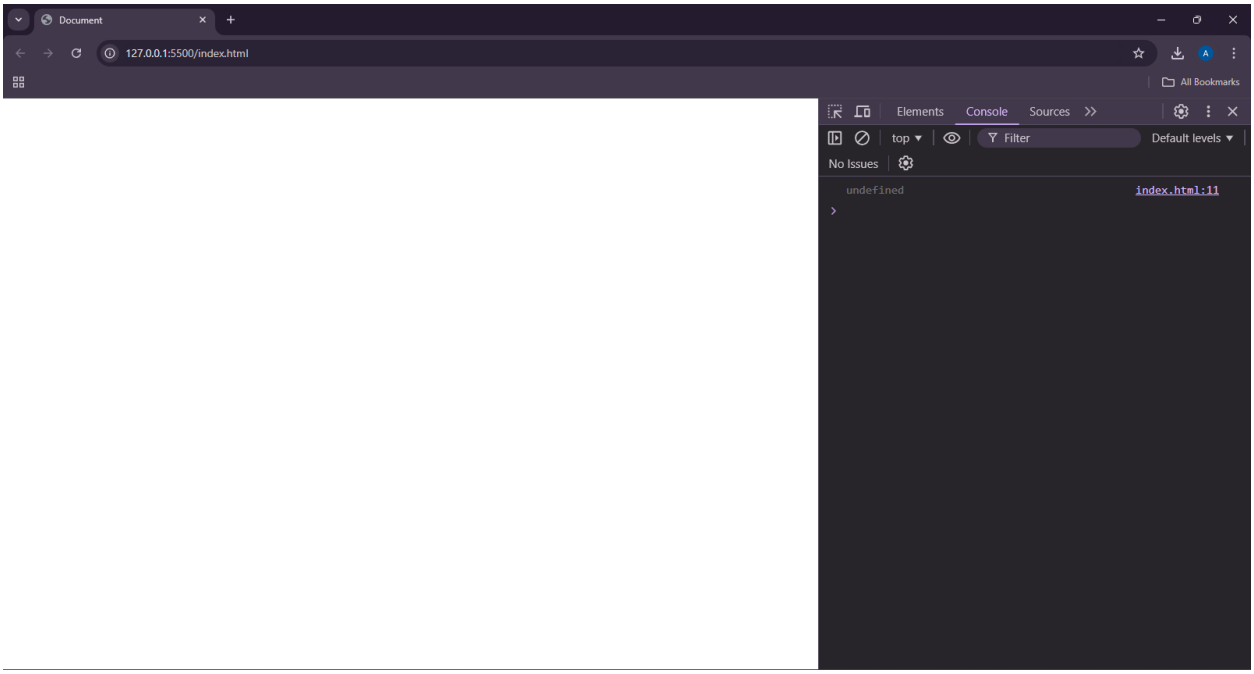
TASK 17

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        const PI = 3.14;
        PI = 22 / 7;
        console.log(PI);
    </script>
</body>
</html>
```



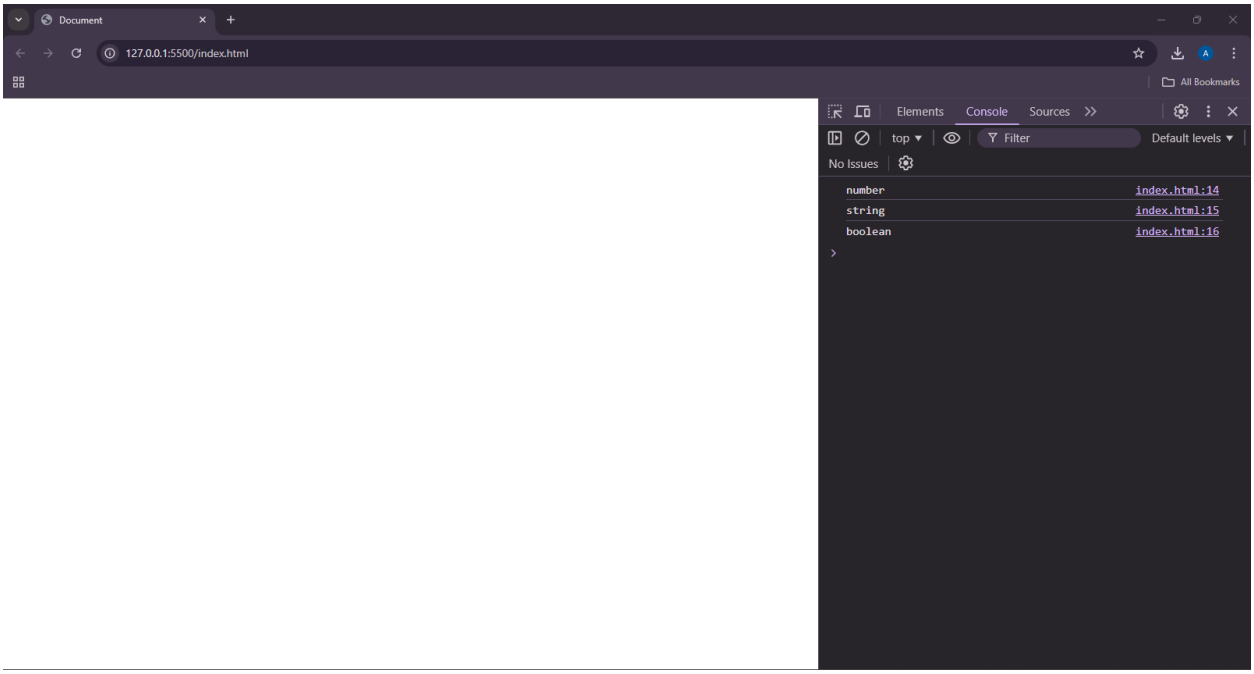
TASK 18

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let pi;
        console.log(pi);
    </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>Document</title>
</head>
<body>
    <script>
        let pi = 3.14;
        let name = "JOHN";
        let isAlive = false;

        console.log(typeof pi);
        console.log(typeof(name));
        console.log(typeof isAlive);
    </script>
</body>
</html>
```



TASK 20

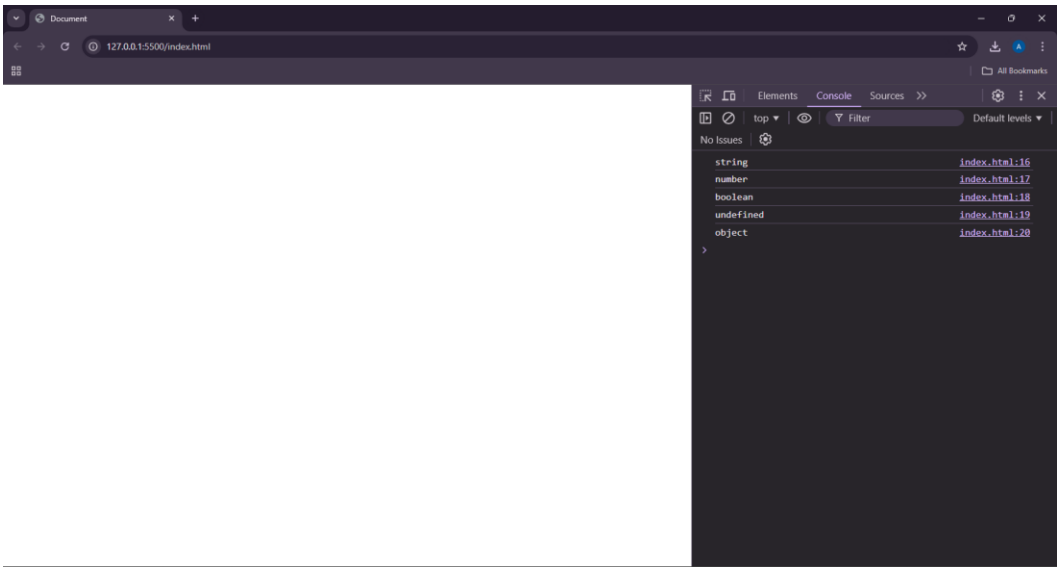
```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        const person = {
            name: "JOHN",
            age: 28
        }
        const { name: fullname } = person;
    </script>
</body>
</html>
```

TASK 21

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let name = "JOHN";
        let age = 18;
        let isAlive = false;
        let nodefined;
        let nonull = null;
    </script>
</body>
</html>
```

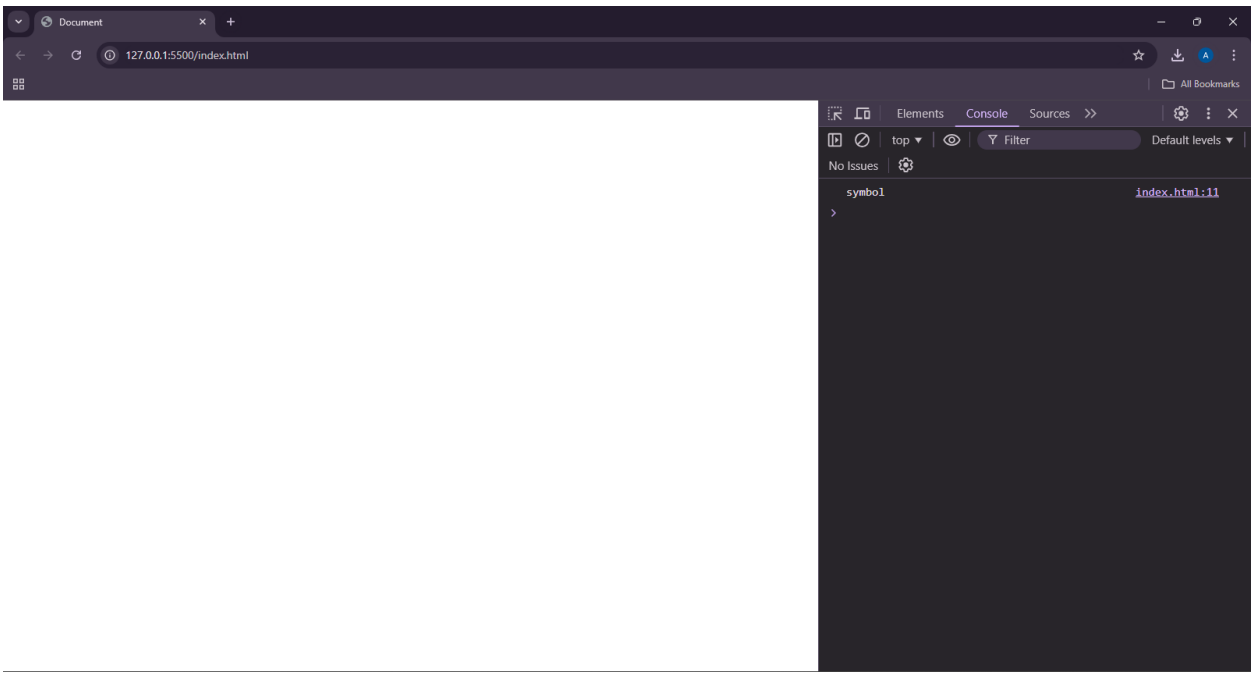
TASK 22

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let name = "JOHN";
        let age = 18;
        let isAlive = false;
        let nodefined;
        let nonull = null;

        console.log(typeof name);
        console.log(typeof age);
        console.log(typeof isAlive);
        console.log(typeof nodefined);
        console.log(typeof nonull);
    </script>
</body>
</html>
```



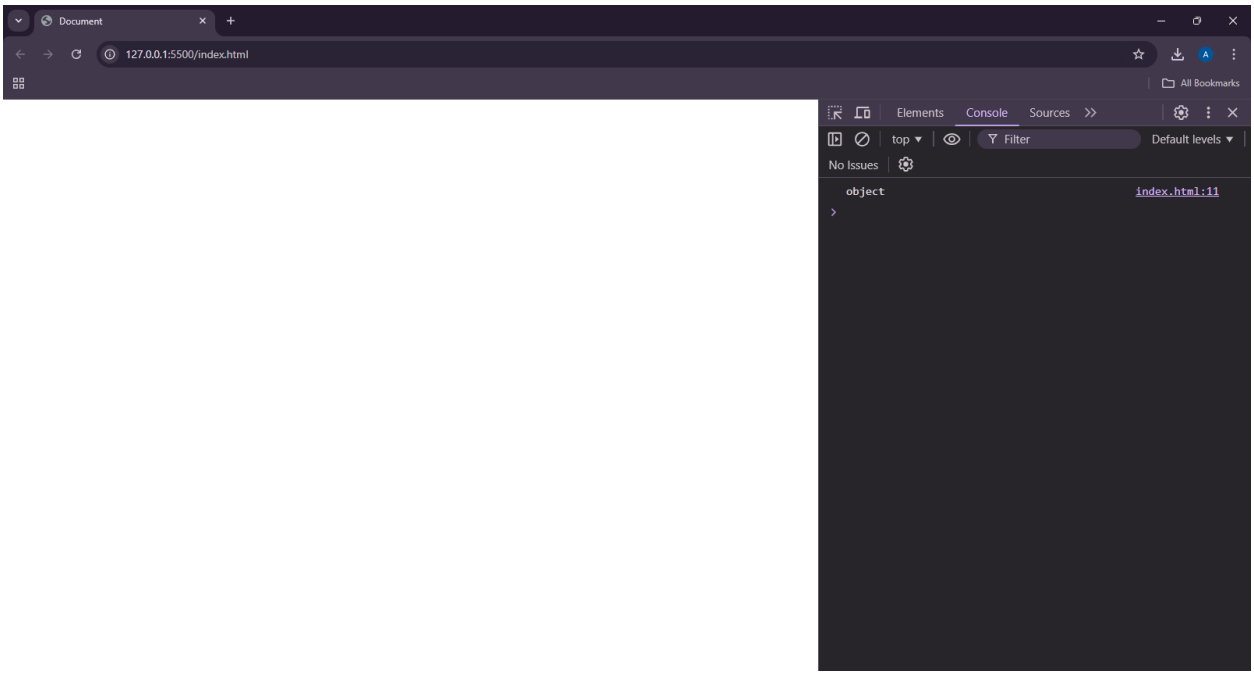
TASK 23

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let name = "JOHN";
        let age = 18;
        let isAlive = false;
        let nodefined;
        let nonull = null;

        console.log(typeof name);
        console.log(typeof age);
        console.log(typeof isAlive);
        console.log(typeof nodefined);
        console.log(typeof nonull);
    </script>
</body>
</html>
```



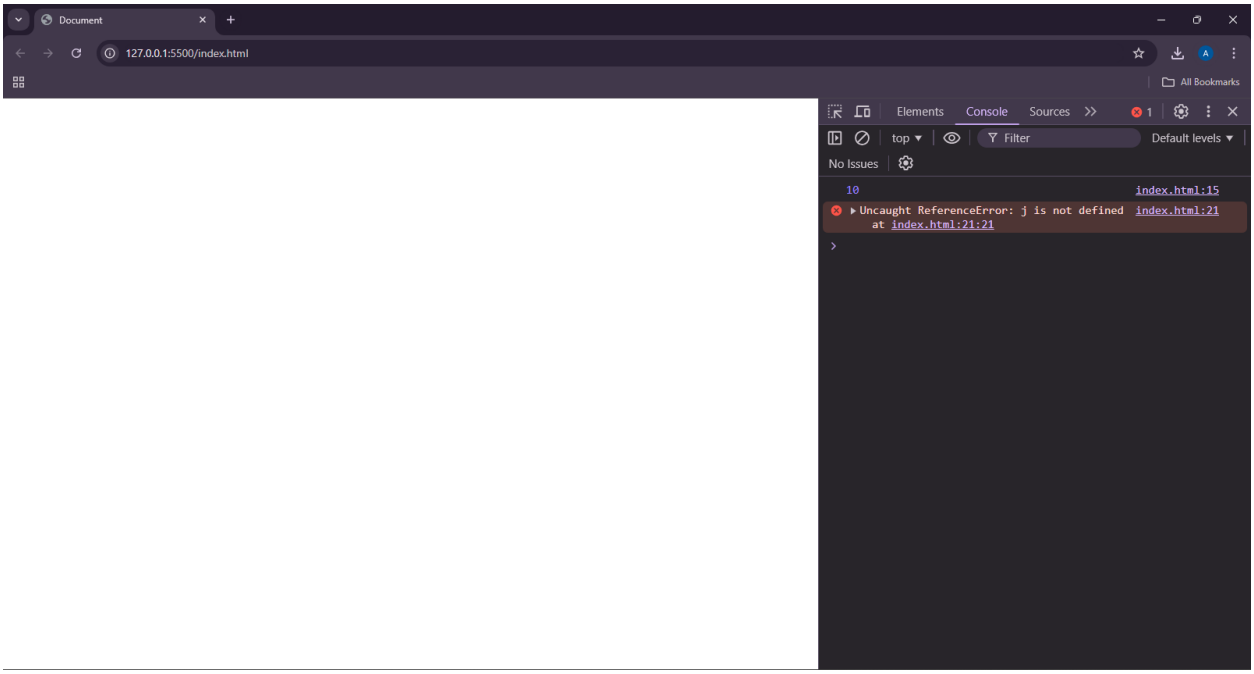
TASK 24

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



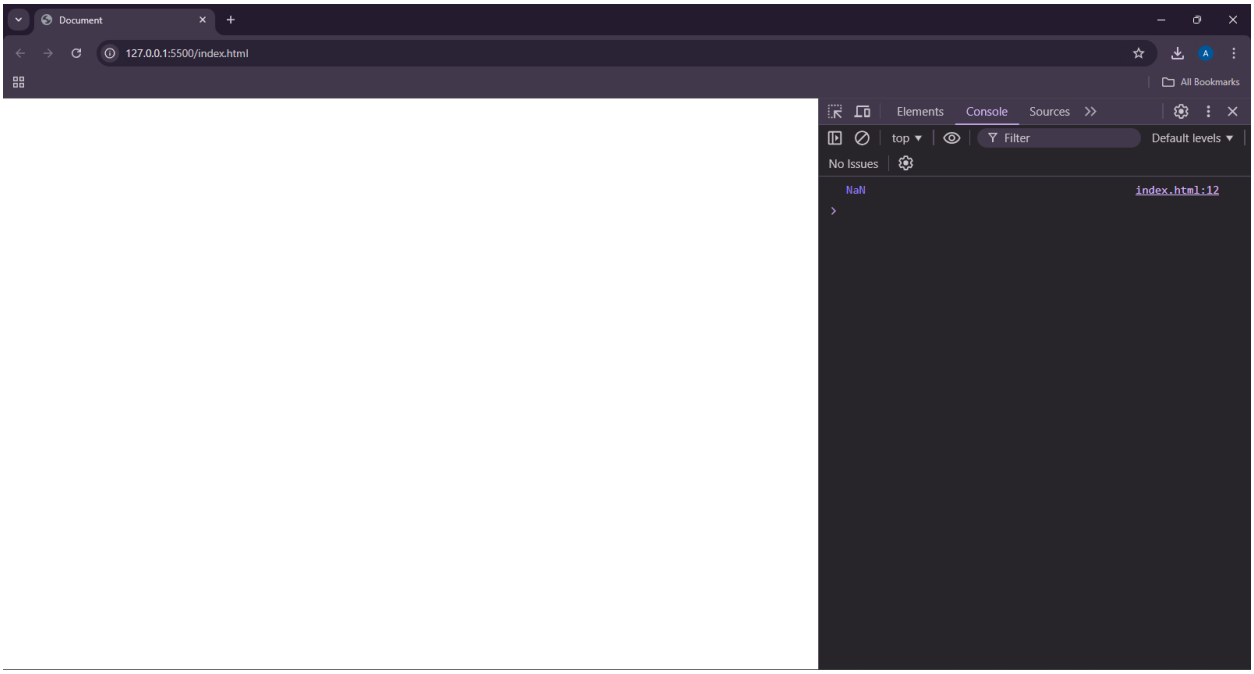
TASK 25

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        var i = 0, n = 10;
        for(i = 0; i < n; i++){

        }

        console.log(i);

        for(let j = 0; j < n; j++){

        }

        console.log(j);
    </script>
</body>
</html>
```



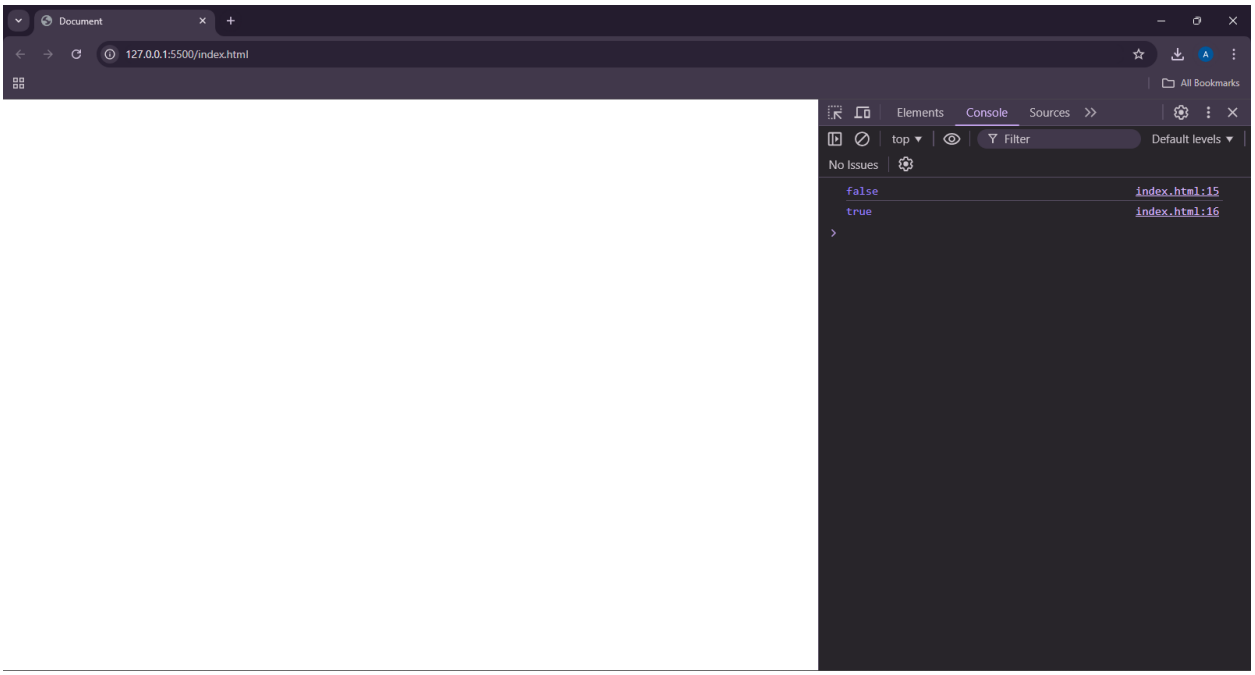
TASK 26

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



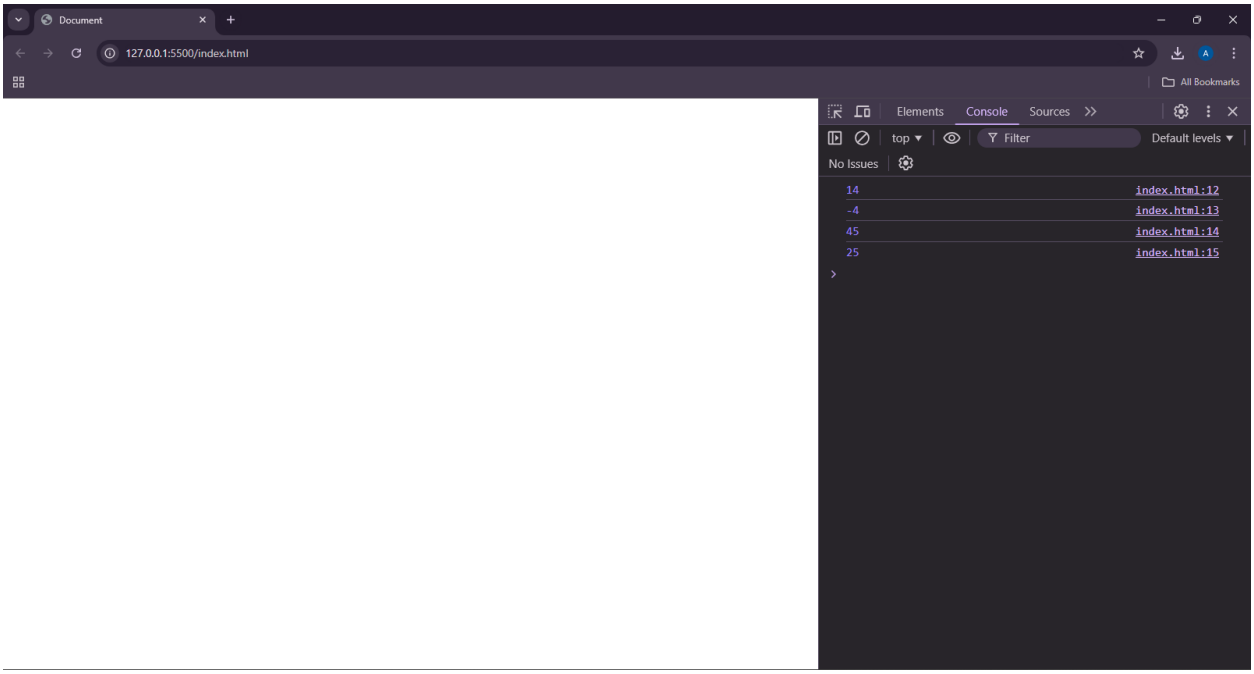
TASK 27

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let empty = "";
        let falseString = Boolean(empty);
        let nonempty = "asdsad";
        let trueString = Boolean(nonempty);

        console.log(falseString);
        console.log(trueString);
    </script>
</body>
</html>
```



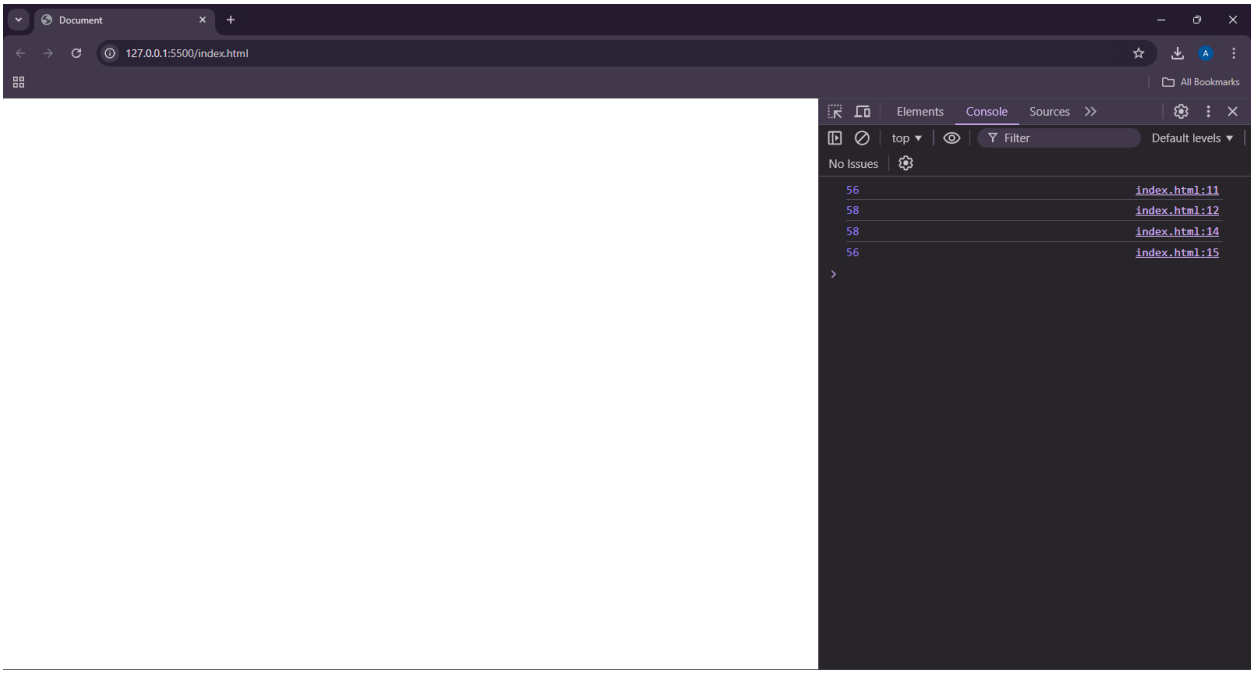
TASK 28

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = 5, b = 9;

        console.log(a + b);
        console.log(a - b);
        console.log(a * b);
        console.log(a ** 2);
    </script>
</body>
</html>
```



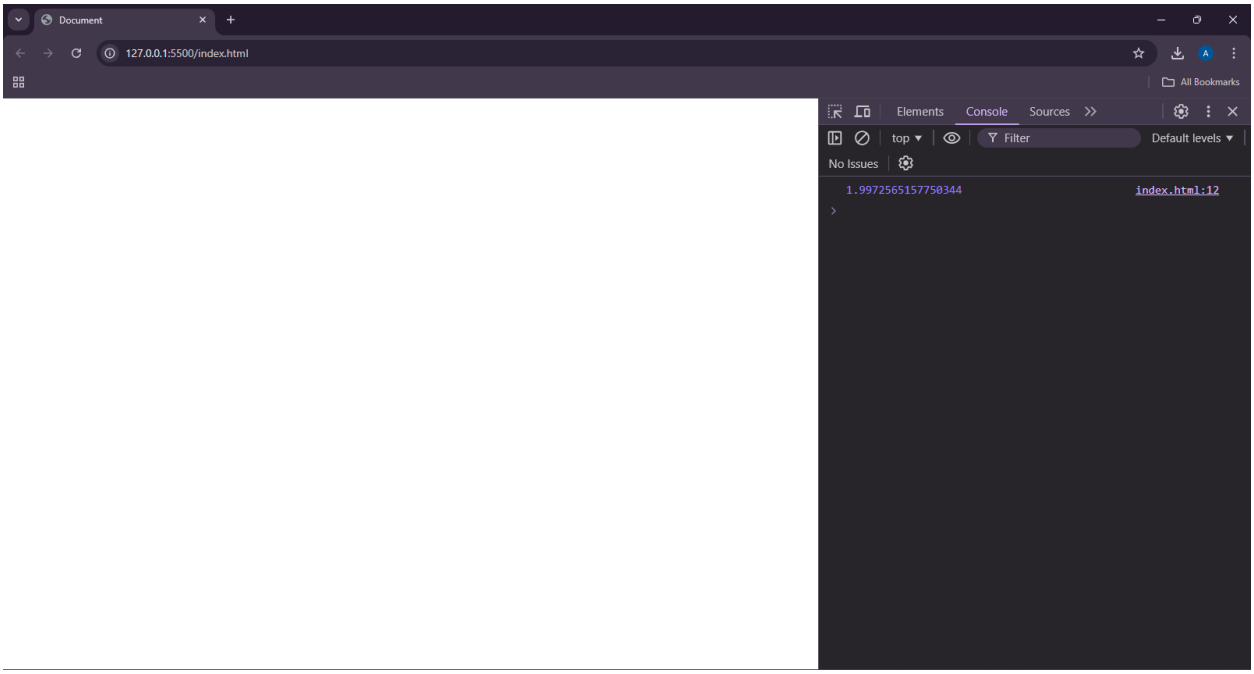
TASK 29

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = 56;
        console.log(a++);
        console.log(++a);

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



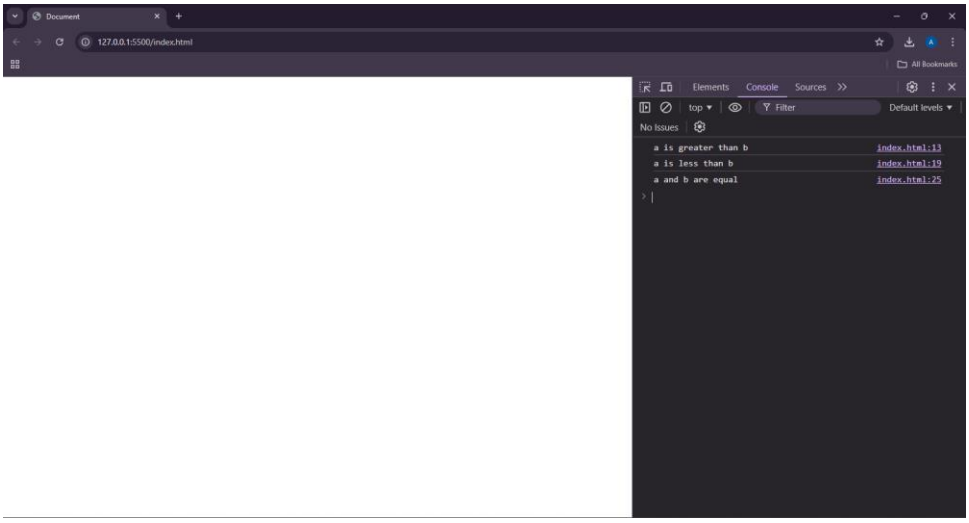
TASK 30

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = 2, b = 9;

        console.log(a - b * 2 / b ** 4);
    </script>
</body>
</html>
```



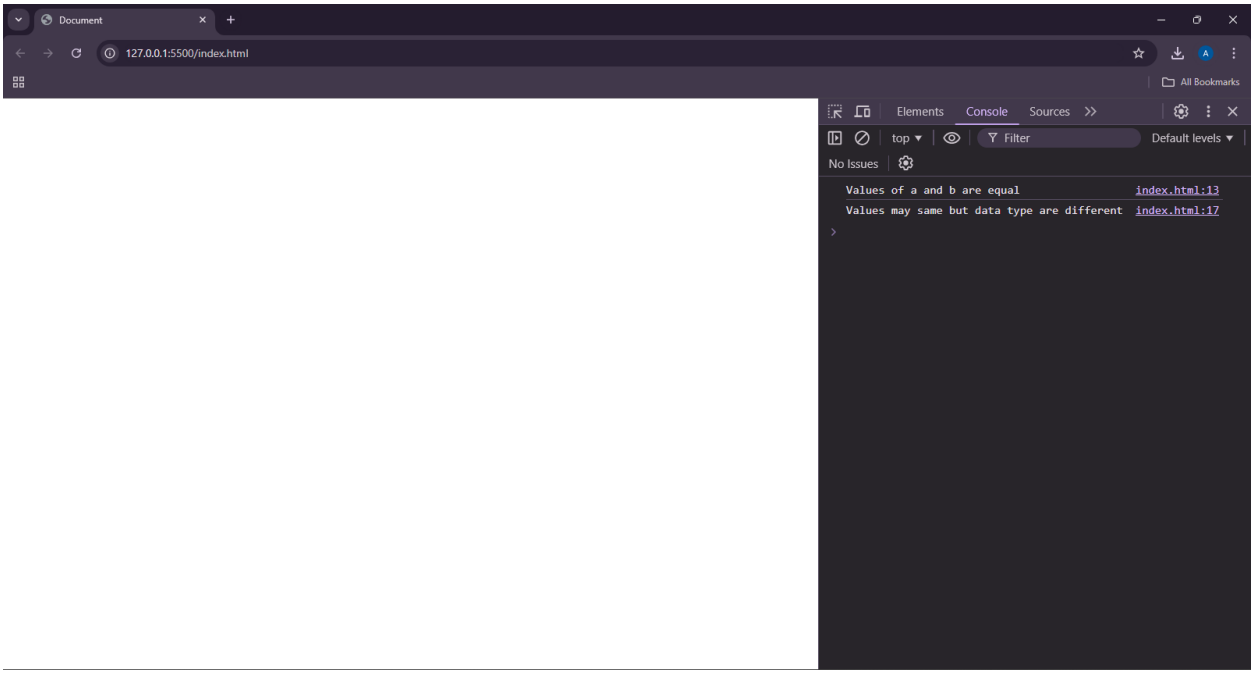
TASK 31

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = 9, b = 2;

        if(a > b){
            console.log("a is greater than b");
        }

        a = 2, b = 9;

        if(a < b){
            console.log("a is less than b");
        }

        a = 2, b = 2;

        if(a == b){
            console.log("a and b are equal");
        }
    </script>
</body>
</html>
```



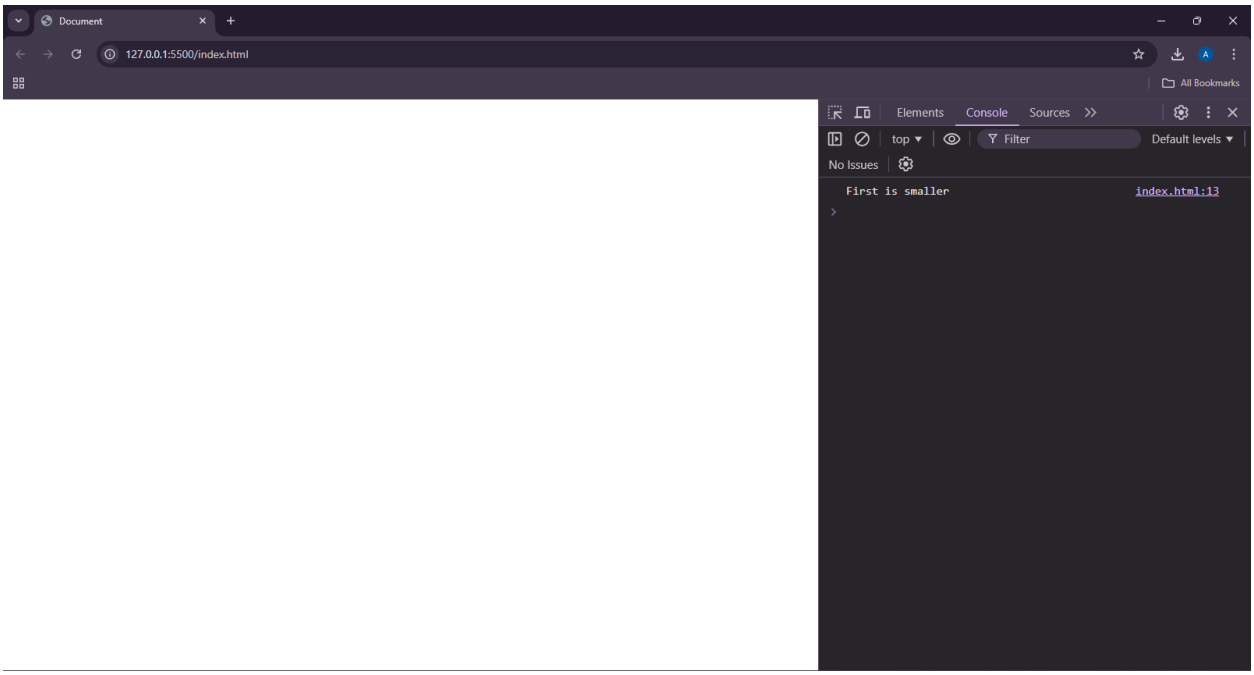
TASK 32

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = "10", b = 10;

        if(a == b){
            console.log("Values of a and b are equal");
        }

        if(a !== b){
            console.log("Values may same but data type are different");
        }
    </script>
</body>
</html>
```



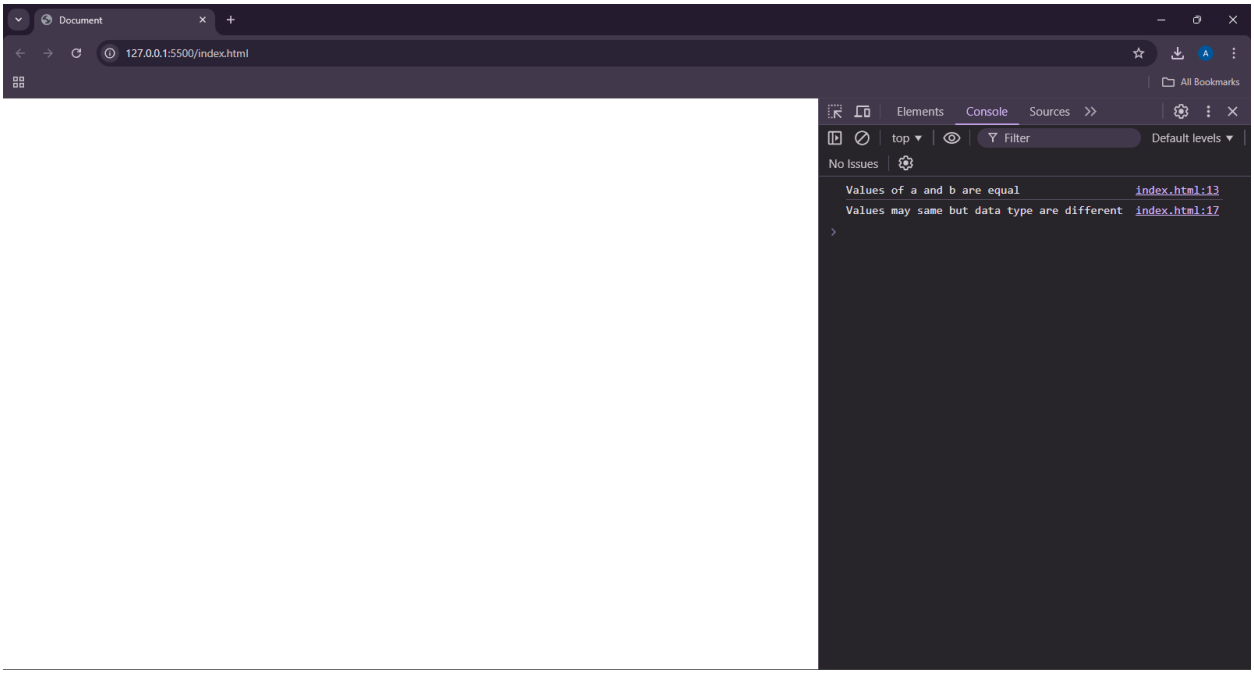
TASK 33

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let first = "aa", second = "abc";

        if(first < second){
            console.log("First is smaller");
        }else{
            console.log("Second is smaller");
        }
    </script>
</body>
</html>
```



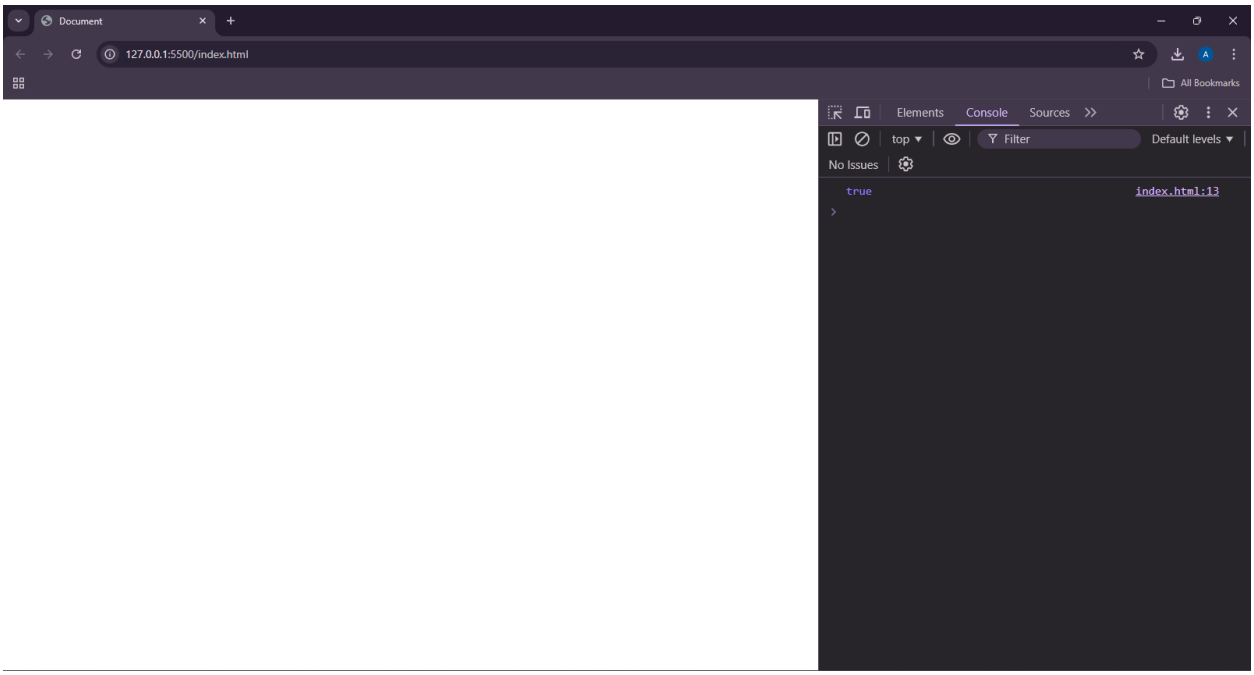
TASK 34

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let a = "10", b = 10;

        if(a == b){
            console.log("Values of a and b are equal");
        }

        if(a !== b){
            console.log("Values may same but data type are different");
        }
    </script>
</body>
</html>
```



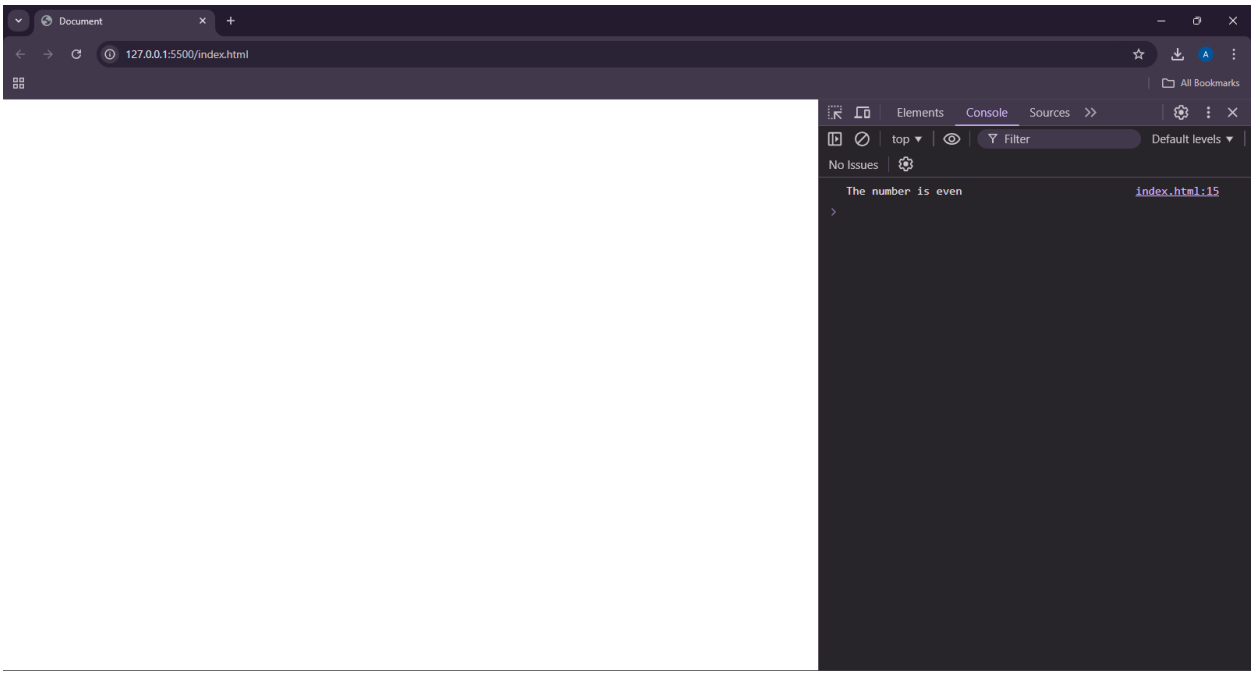
TASK 35

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

        console.log(nonull == nodefined);
    </script>
</body>
</html>
```



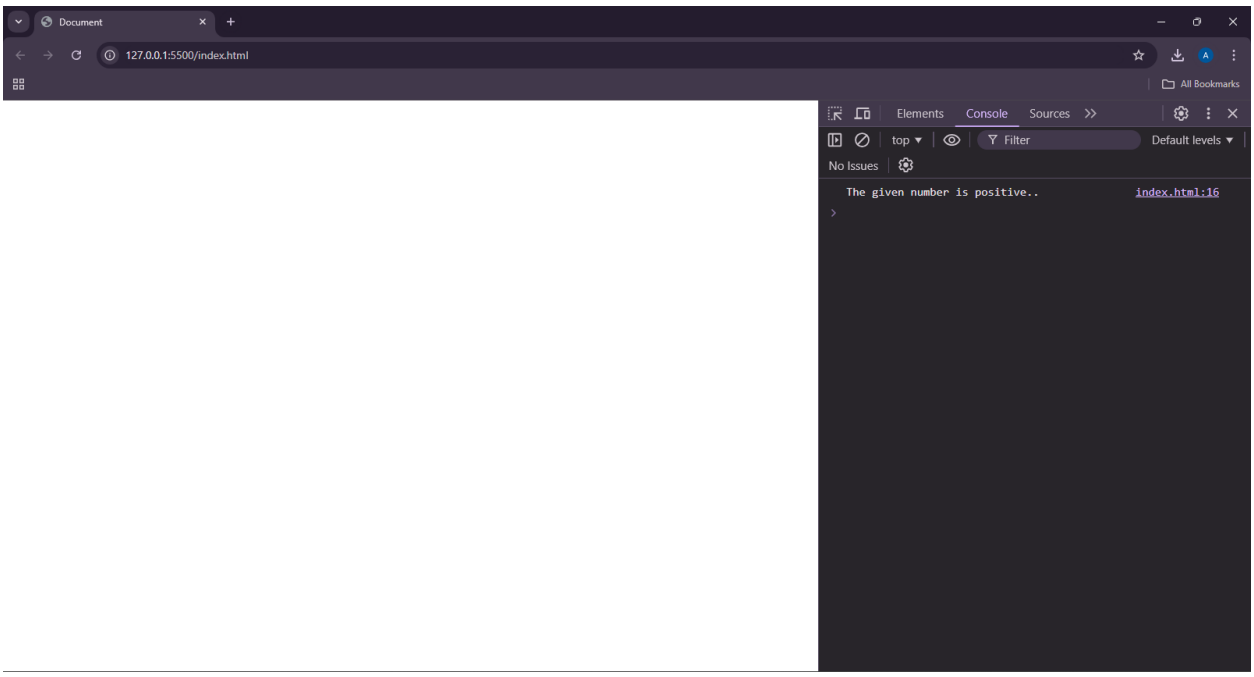
TASK 36

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

        if(num % 2 == 1){
            console.log("The number is odd");
        }else{
            console.log("The number is even");
        }
    </script>
</body>
</html>
```



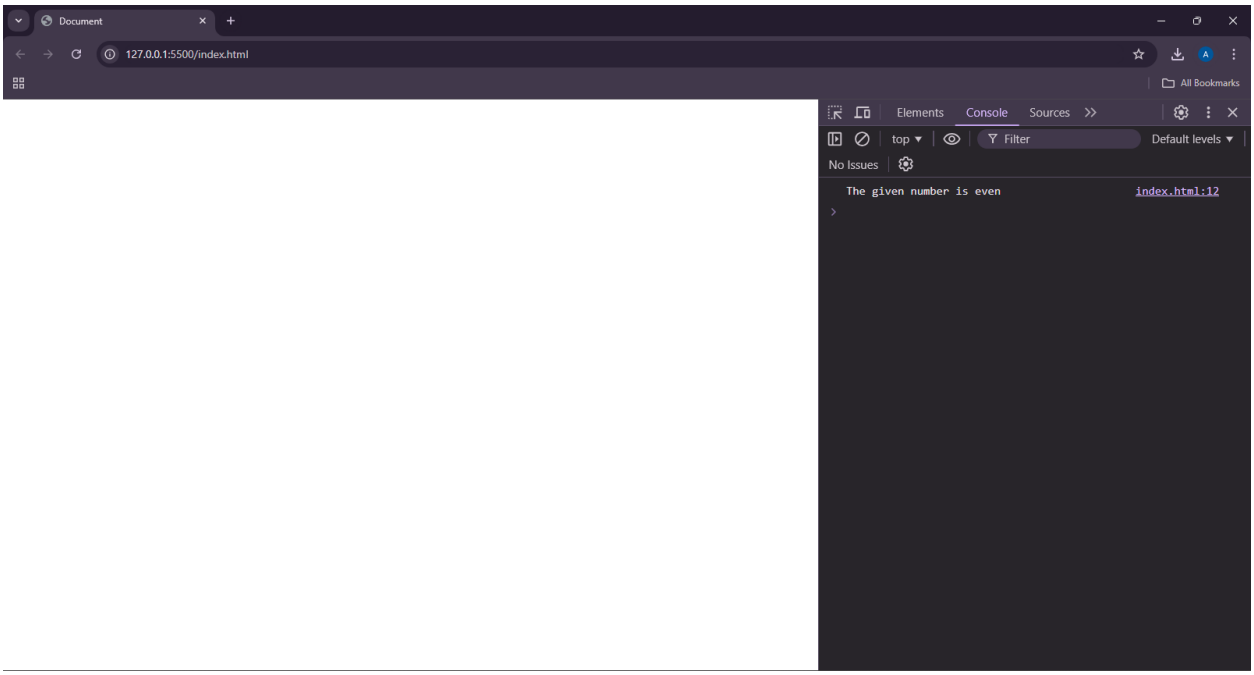
TASK 37

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

        if(num >= 0){
            if(num == 0){
                console.log("The given number is zero..");
            }else{
                console.log("The given number is positive..");
            }
        }else{
            console.log("The given number is negative");
        }
    </script>
</body>
</html>
```



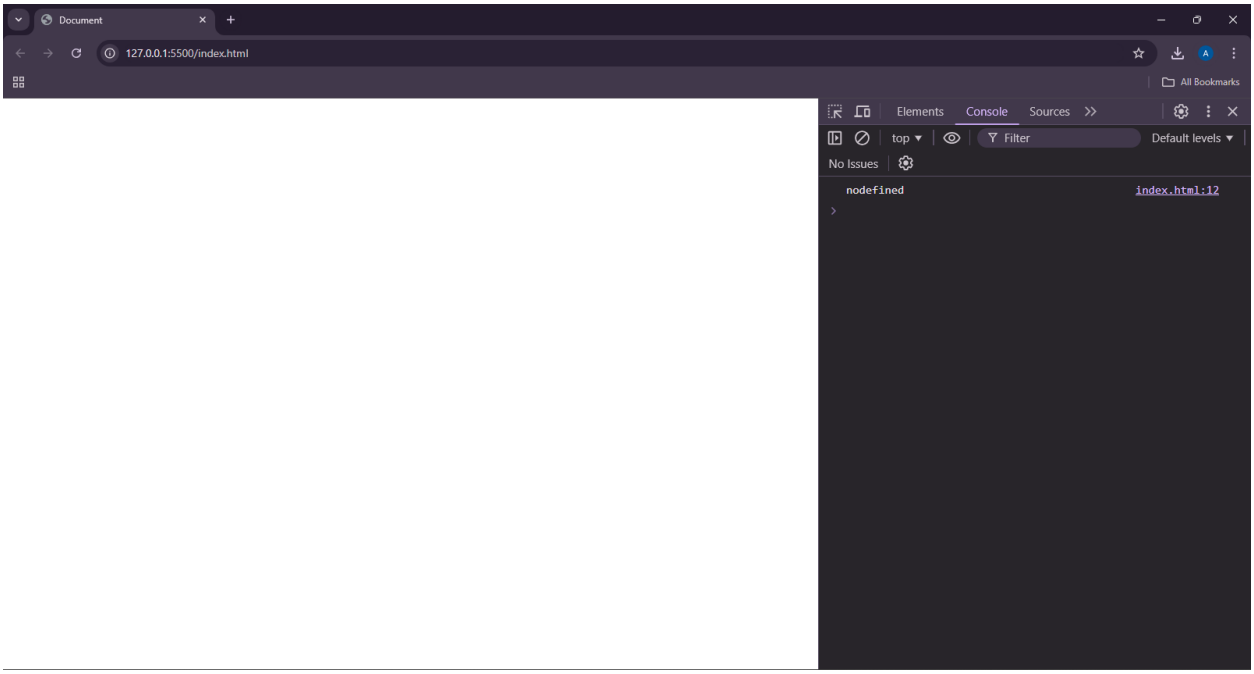
TASK 38

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

        num % 2 == 0 ? console.log("The given number is even") : console.log("The given number is odd");
    </script>
</body>
</html>
```



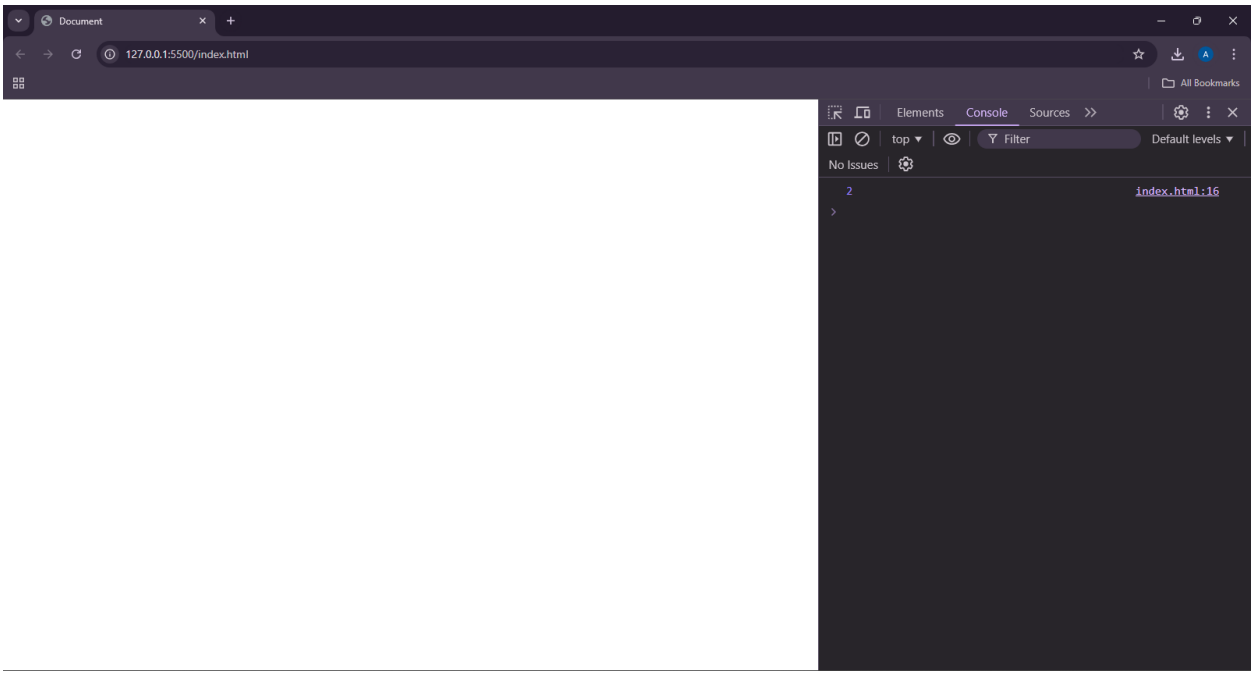
TASK 39

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

        num ?? console.log("nodefined");
    </script>
</body>
</html>
```



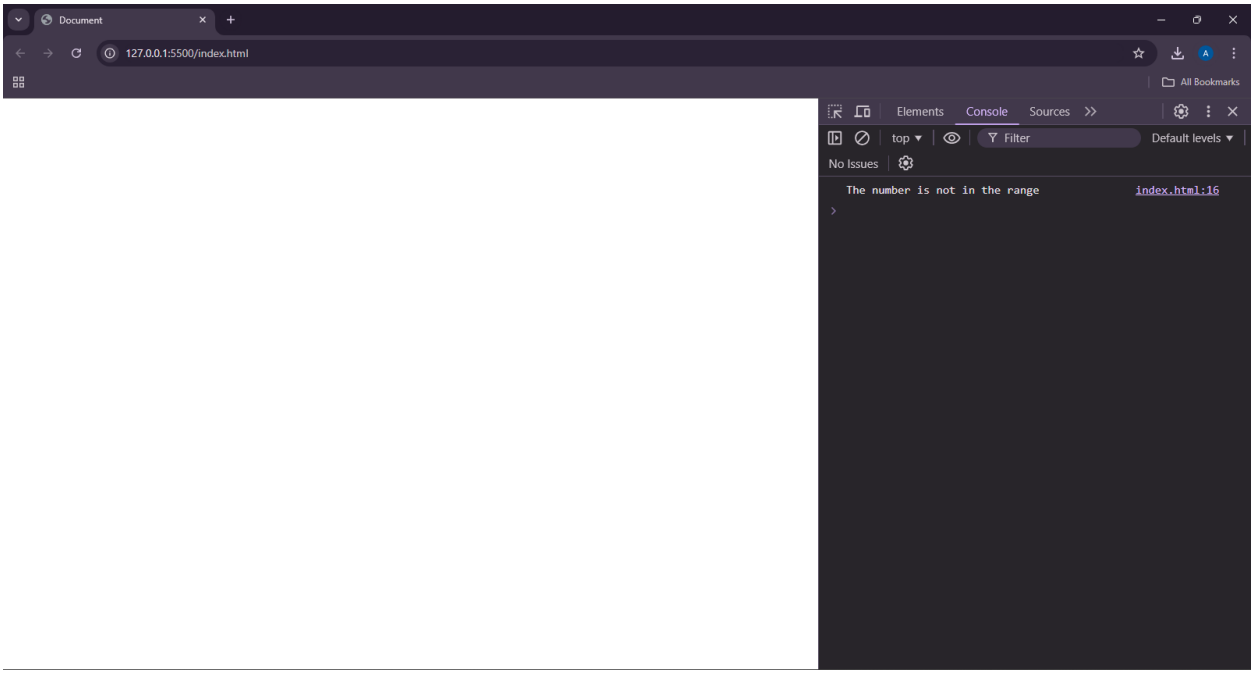
TASK 40

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

        if(1 == 1){
            num = 2;
        }

        console.log(num);
    </script>
</body>
</html>
```



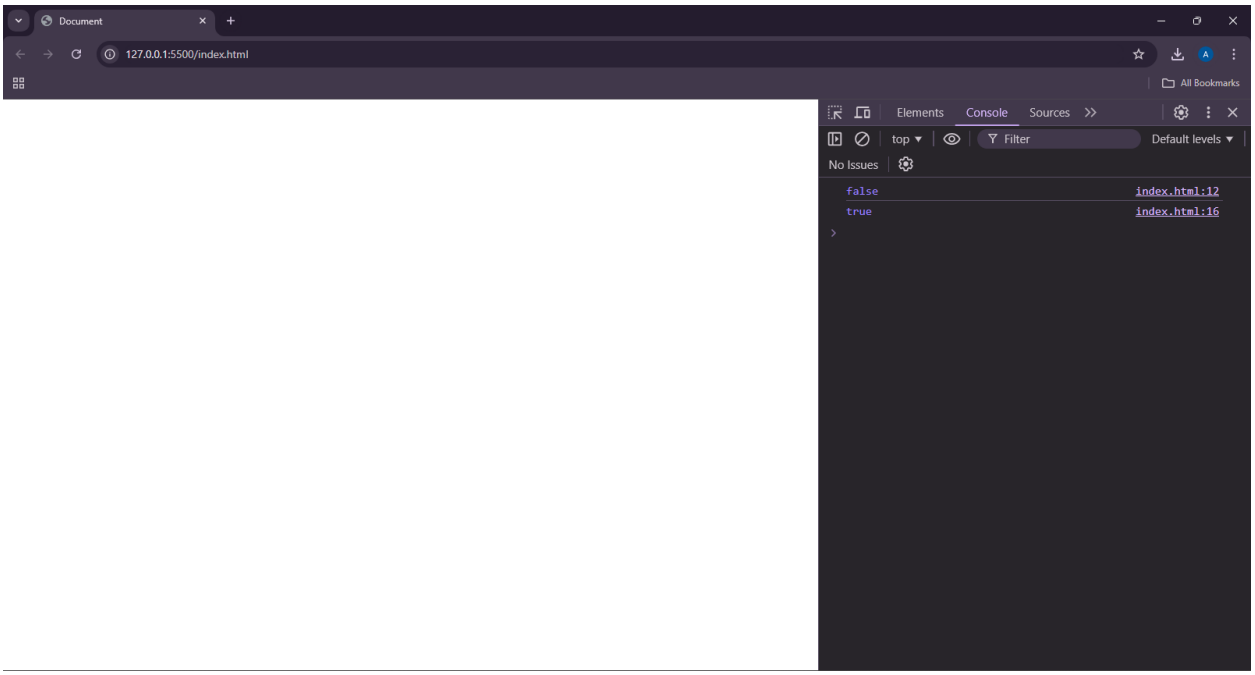
TASK 42

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let start = 1, end = 10;

        let num = 100;
        if(num <= end && num >= start){
            console.log("The number is in the range 1 to 10");
        }else{
            console.log("The number is not in the range");
        }
    </script>
</body>
</html>
```



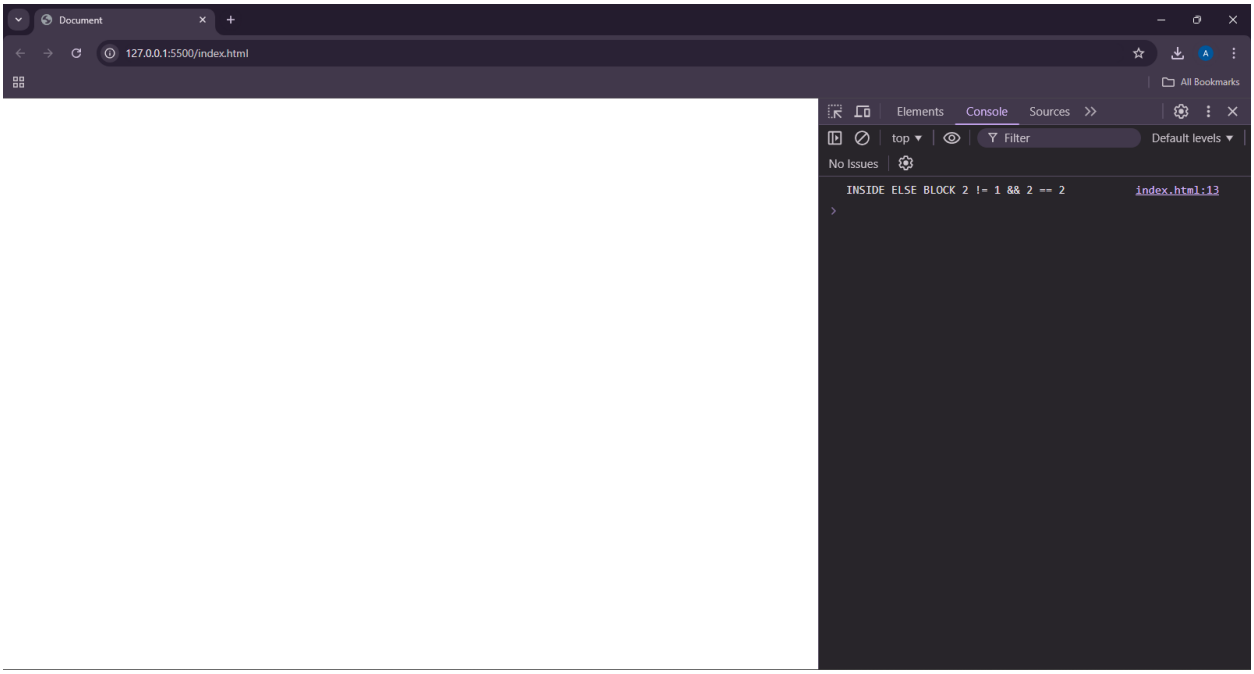
TASK 43

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

        console.log(isAlive);

        isAlive = !isAlive;

        console.log(isAlive);
    </script>
</body>
</html>
```



TASK 44

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        if(2 == 1 && 2 == 2){
            console.log("INSIDE IF BLOCK");
        }else{
            console.log("INSIDE ELSE BLOCK 2 != 1 && 2 == 2")
        }
    </script>
</body>
</html>
```



TASK 45

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script>
        let firstname = "JOHN";
        let number = 20;

        let nonull = null;
        let nodefined;

        console.log(firstname == number);
        console.log(nonull == nodefined);

    </script>
</body>
</html>
```