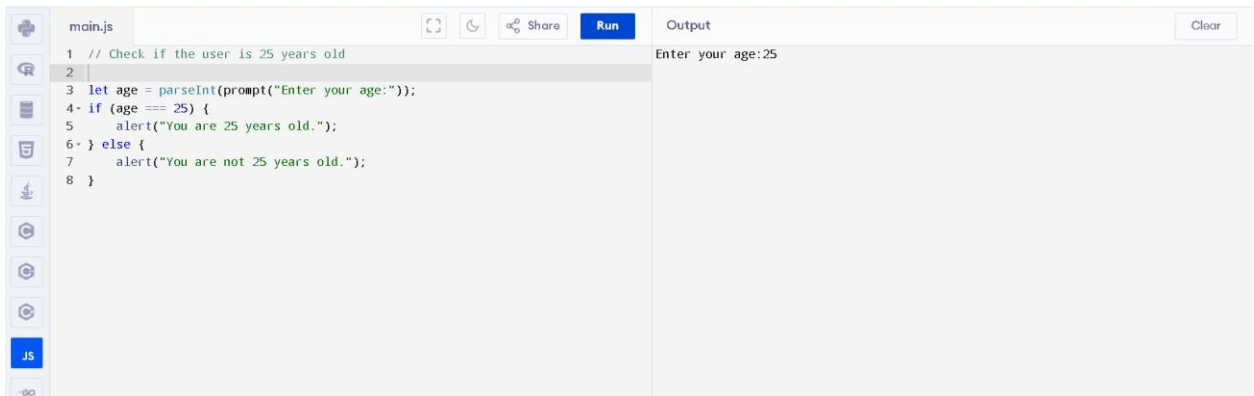


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Instruction: Provide the following loops and iteration conditions based on the required task. (60 points)

1. Construct if and if... else statements that meet the following:

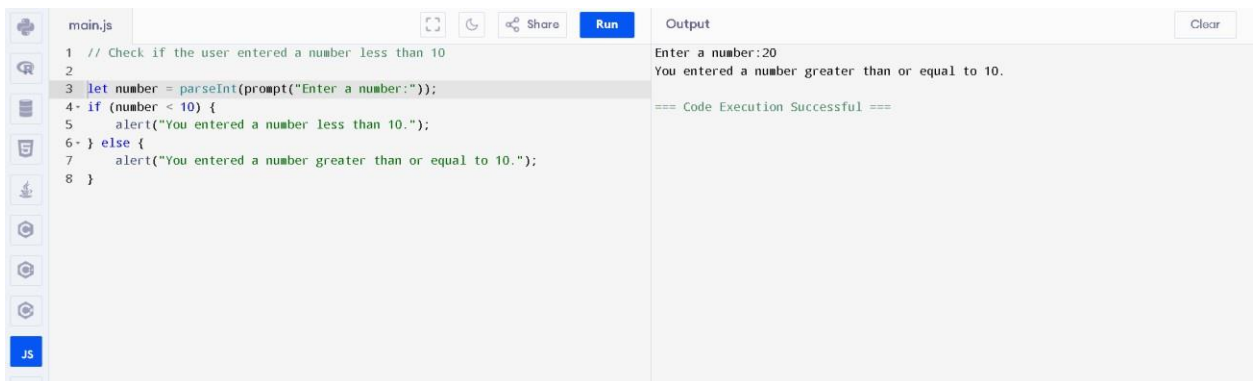
a) Display a dialog box confirming a user is 25 years old and up.



```
main.js
1 // Check if the user is 25 years old
2
3 let age = parseInt(prompt("Enter your age:"));
4 if (age === 25) {
5   alert("You are 25 years old.");
6 } else {
7   alert("You are not 25 years old.");
8 }

Output
Enter your age:25
```

b) Display a dialog box confirming a user entered a number less than 100.



```
main.js
1 // Check if the user entered a number less than 10
2
3 let number = parseInt(prompt("Enter a number:"));
4 if (number < 10) {
5   alert("You entered a number less than 10.");
6 } else {
7   alert("You entered a number greater than or equal to 10.");
8 }

Output
Enter a number:20
You entered a number greater than or equal to 10.

=== Code Execution Successful ===
```

2. Construct for loops that meet the following tasks:

a) Print the numbers 0-30, one number per line.

The screenshot shows a code editor with a file named 'main.js'. The code is as follows:

```
1 // Print numbers from 0 to 30
2 let numbers = "Numbers from 0 to 30:\n";
3 for (let i = 0; i <= 30; i++) {
4   numbers += i + "\n";
5 }
6 alert(numbers);
```

The 'Output' panel on the right displays the result of the code execution:

```
Numbers from 0 to 30:
0
1
2
3
4
5
6
7
8
9
10
11
12
13
14
15
16
17
18
19
20
21
22
```

b) Print only the even values from 0-40, one number per line.

The screenshot shows a code editor with a file named 'main.js'. The code is as follows:

```
1 // Print even numbers from 0 to 40
2
3 let evens = "Even numbers from 0 to 40:\n";
4 for (let i = 0; i <= 40; i += 2) {
5   evens += i + "\n";
6 }
7 alert(evens);
```

The 'Output' panel on the right displays the result of the code execution:

```
Even numbers from 0 to 40:
0
2
4
6
8
10
12
14
16
18
20
22
24
26
28
30
32
34
36
38
40
```

c) Print the numbers 40 to 10 in descending order, but only if the numbers are multiples of 3

The screenshot shows a code editor with a file named 'main.js'. The code is as follows:

```
1 // Print numbers from 40 to 10 (multiples of 3)
2
3 let multiples = "Multiples of 3 from 40 to 10:\n";
4 for (let i = 40; i >= 10; i--) {
5   if (i % 3 === 0) {
6     multiples += i + "\n";
7   }
8 }
9 alert(multiples);
```

The 'Output' panel on the right displays the result of the code execution:

```
Multiples of 3 from 40 to 10:
39
36
33
30
27
24
21
18
15
12
```

Below the output, the text '=== Code Execution Successful ===' is displayed.