```
console.clear();
 2
 3
   /*
   Hoisting is a behavior where variable and function declarations are moved to the top of their scope (either global or function)
    before code execution.
   Variables declared with var are hoisted to the top and initialized with undefined. You can use them before declaration (not
   recommended).
   Variables declared with let or const are hoisted but not initialized. They are in a Temporal Dead Zone (TDZ) from the start of
    the block until the declaration is encountered.
10
   */
11
12
   console.log(a); // undefined
14
15
    var a = 10;
16
    console.log(a); // 10
17
18
19
20
    Behind the scenes:
22
23
                    // hoisted and initialized to undefined
    var a;
24
   console.log(a); // undefined
26
27
    a = 10;
28
    console.log(a); // 10
30
31
    */
32
   console.log(b); // ★ ReferenceError: Cannot access 'b' before initialization
34
   let b = 20;
```

```
36
    console.log(c); // \times ReferenceError: Cannot access 'c' before initialization
37
38
39
    const c = 30;
40
    // Calling the function before its declaration works perfectly
41
42
   greet(); // 	☑ Output: "Hello from a hoisted function!"
43
44
45
   function greet() {
46
47
        console.log("Hello from a hoisted function!");
48
```