```
console.clear();
 2
 3
    /*
 4
 5
6
                    Operators Interview Questions 💋
 7
8
9
10
11
    */
12
13
14
    /*
15
   1. What is the difference between == and === in JavaScript?
16
17
    == checks whether the values of two operands are equal or not. === checks whether the values and data type of two operands
18
    are equal or not. For example: \P
19
    */
20
21
22
    let num1 = 10;
23
    let num2 = "10";
25
    console.log(num1 == num2);
26
27
28
    console.log(num1 === num2);
29
30
31
   2. Write a program that determines if a person is eligible to drive based on their age being greater than or equal to 18 and
    having a valid driving license using ternary and logical operators.

→ If the person is eligible, print "You are eligible to drive". If the person is not eligible, print "You are not eligible."

    to drive". 👇
35
```

```
36
   */
37
38
   let age = 18;
39
   let haveDrivingLicense = true;
41
   console.log(age >= 18 && haveDrivingLicense ? "You are eligible to drive." : "You are not eligible to drive.");
42
43
44
   /*
45
46
   3. What is the difference between null, undefined and Not defined in JavaScript?
47
   p null is an assigned value representing the intentional absence of any object value.
48
49
   50
51

→ Not defined means a variable has not been declared yet but we are trying to access it.

52
53
   */
54
55
56
   let a;
57
   console.log(a); // undefined
58
59
   let b = null;
60
61
   console.log(b); // null
63
   // console.log(c); ReferenceError: c is not defined
64
65
   /*
66
67
   4. What is the difference between && and || operators in JavaScript?
68
69
70
   ★ && is the logical AND operator. It returns true if both the operands are true.
71
   / | is the logical OR operator. It returns true if at least one of the operands is true.
72
73
```

```
74
    */
75
    console.log(true && false); // false
76
77
78
    console.log(false || true); // true
79
    console.log(0 || "Hello"); // "Hello"
80
81
    console.log(5 && 10); // 10
83
84
    console.log(0 && "Hello"); // 0
85
86
    /*
87
88
    5. What is the difference between && and ?? (Nullish Coalescing Operator) in JavaScript?
89
    90
91
    ?? is the nullish coalescing operator. It returns the first non-nullish operand.?? (Nullish Coalescing) only checks for
92
    null or undefined and returns the right operand if the left is null or undefined.
93
94
    */
95
96
    console.log(false && "Hello"); // false
97
    console.log(null ?? "Default"); // "Default"
98
99
    console.log(0 ?? "Fallback"); // 0
100
101
    console.log("" ?? "Empty"); // ""
102
103
104
    /*
105
106
107
                   Output Based Interview Questions 💋
108
109
110
```

```
111
    */
112
113
    console.log("5" - 3); // 2 (String is converted to number)
114
115
116
    console.log(2 < 12 < 5); // true (2 is less than 12 and 12 is less than 5)
117
    console.log("20" + 10 + 10); // 201010 (String concatenation)
118
119
    console.log("20" - 10 - 10); // 0 (String is converted to number)
120
121
122
    /*
123
124
125
                 Questions on Bitwise Operators 💋
126
127
128
129
130
    */
131
    /*
132
133
    134
135
    136
137
138
    */
139
    /*
140
141
142
    Decimal
            Binary
143
    0
            0000
144
145
            0001
    1
146
            0010
147
    3
            0011
148
            0100
   4
```

%

```
7/17/25, 10:25 AM
  149
      5
                 0101
  150
      6
                 0110
  151 7
                 0111
                 1000
  152
  153
                 1001
                 1010
  154
      10
  155
       11
                 1011
                 1100
  156
      12
  157
       13
                 1101
  158
       14
                 1110
  159
       15
                 1111
  160
       */
  161
 162
       // By applying the bitwise operators, we get the following results:
  163
  164
       // In this example, the binary representation of 5 is 0101 and 3 is 0011
  165
  166
       console.log(5 & 3);
  167
  168
  169
       // If the element on both sides is 1, the result will be 1 otherwise 0.
  170
 171
       // Result: 0001
  172
 173
       console.log(5 | 3);
  174
       // If the element on either side is 1, the result will be 1 otherwise 0.
  175
  176
       // Result: 0111
  177
  178
 179
       console.log(5 ^ 3);
  180
       // If the element on both sides is 0, the result will be 0 otherwise 1.
  181
  182
  183
       // Result: 0110
  184
       console.log(~5);
  185
  186
```



```
// The result will be the one's complement of 5.
188
189
    // Result: -6
190
191
192
193
194
              Questions based on Ternary (Conditional) Operators 🦪
195
196
197
    ______
198
199
    */
200
201
    let c = 0;
202
    let d = 10;
203
204
    console.log(c || d && "Hello");
205
206
207
    // Result: Hello because 0 is false and 10 is true
208
    console.log(c && d || "World");
209
210
211
    // Result: World because 0 is false and 10 is true
212
    console.log(c ?? d ?? "Fallback");
213
214
215
    // Result: Fallback because both c and d are false
216
217
    /*
218
219
    ______
220
              Questions based on Type Coercion 🧭
221
222
223
224
```



```
225
     */
226
     console.log([] + {});
227
228
229
     // Result: [object Object] because [] is an array and {} is an object and both are implicitly converted to strings
230
     console.log({} + []);
231
232
     // Result: [object Object] because {} is an object and [] is an array and both are implicitly converted to strings
233
234
235
     console.log(true + +"10");
236
237
     // Result: 11 because true is implicitly converted to 1 and "10" is implicitly converted to Number 10
238
239
     console.log(!!"false" == !!"true");
240
     // Result: true because both are implicitly converted to true ("false" coerced to false and "true" coerced to true)
241
242
     console.log([] == ![]);
243
244
245
     // Result: true because both are implicitly converted to false (empty array coerced to empty string)
246
247
     /*
248
249
250
                 Questions based on typeof Operator 🚀
251
252
253
254
255
     */
256
257
     console.log(typeof NaN); // number
258
     console.log(typeof null); // object
259
260
261
     console.log(typeof undefined); // undefined
262
```

%

```
263 console.log(typeof []); // object
264
265 console.log(typeof function() {}); // function
```

