```
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.
   f 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
42
  // Using Ternary Operator
43
  console.log(age >= 18 && haveDrivingLicense ? "You are eligible to drive." : "You are not eligible to drive.");
44
45
46
   /*
47
  3. What is the difference between null, undefined and Not defined in JavaScript?
48
49

    mull is an assigned value representing the intentional absence of any object value.

50
51
   52
53
   54
55
56
  */
57
  let a;
59
  console.log(a); // undefined
60
61
  let b = null;
63
64
  console.log(b); // null
65
  // console.log(c); ReferenceError: c is not defined
66
67
   /*
68
69
  4. What is the difference between && and || operators in JavaScript?
71
   72
73
```

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

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

```
7/17/25, 5:25 PM
  149 3
                 0011
  150 4
                 0100
      5
                 0101
  151
                 0110
  152 6
  153 7
                 0111
                 1000
  154
      8
  155
      9
                 1001
                 1010
  156 10
  157
      11
                 1011
  158
      12
                 1100
  159
      13
                 1101
  160
                 1110
      14
      15
                 1111
  161
  162
      */
  163
  164
       // By applying the bitwise operators, we get the following results:
  165
  166
  167
       // In this example, the binary representation of 5 is 0101 and 3 is 0011
  168
  169
       console.log(5 & 3);
  170
      // If the element on both sides is 1, the result will be 1 otherwise 0.
  171
 172
      // Result: 0001
  173
  174
       console.log(5 | 3);
  175
  176
      // If the element on either side is 1, the result will be 1 otherwise 0.
  177
  178
      // Result: 0111
  179
  180
       console.log(5 ^ 3);
  181
  182
  183
      // If the element on both sides is 0, the result will be 0 otherwise 1.
  184
  185
       // Result: 0110
  186
```

```
console.log(~5);
187
188
     // The result will be the one's complement of 5.
189
190
191
     // Result: -6
192
193
194
195
196
                 Questions based on Ternary (Conditional) Operators 🦪
197
198
199
200
201
     */
202
     let c = 0;
203
204
     let d = 10;
205
206
     console.log(c || d && "Hello");
207
208
209
     // Result: Hello because 0 is false and 10 is true
210
     console.log(c && d || "World");
211
212
213
     // Result: World because 0 is false and 10 is true
214
215
     console.log(c ?? d ?? "Fallback");
216
217
     // Result: Fallback because both c and d are false
218
     /*
219
220
221
222
                 Questions based on Type Coercion 💋
223
224
```

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

```
263 console.log(typeof undefined); // undefined
264
265 console.log(typeof []); // object
266
267 console.log(typeof function () { }); // function
```