```
console.clear();
 2
 3
    /*
 4
 5
6
                    Data Types Interview Questions 🖰
7
8
9
10
11
    */
12
    console.log("Data Types Interview Questions");
13
14
    /*
15
16
   1. What is the difference between null and undefined in JavaScript?
17
18
    `null` is an assigned value that represents the intentional absence of any object value.
19
20
    `undefined` means a variable is declared but not assigned any value.
21
22
23
   */
24
25
   // Example:
26
27
    let a = null;
28
29
   let b;
30
    console.log("a:", a, "Type:", typeof a); // object (JS bug)
31
32
33
    console.log("b:", b, "Type:", typeof b); // undefined
34
35
    /*
36
   2. What is the purpose of the `typeof` operator in JavaScript?
```

```
38
39

→ The `typeof` operator is used to find the data type of a variable.

40
    */
41
42
43
    // Example:
44
   console.log(typeof "JavaScript"); // string
45
46
47
    console.log(typeof 42); // number
48
49
    console.log(typeof false); // boolean
50
51
    /*
52
53
   3. What are the primitive data types in JavaScript?
54
55
    JavaScript has 7 primitive data types:
56
57
       ✓ Number
58
59
       ✓ String
60
       ✓ Boolean
61
62
       ✓ Undefined
63
64
       ✓ Null
65
66
67
       ✓ BigInt
68
69
       ✓ Symbol
                                                                                                                                 0
70
71
   */
72
73
   // Example:
74
   let myFavoriteNumber = -7; // number
```

```
76
    let myFavoriteString = "JavaScript"; // string
77
78
79
    let myFavoriteBoolean = true; // boolean
80
81
    let myFavoriteUndefined; // undefined
82
    let myFavoriteNull = null; // null
83
84
    let myFavoriteBigInt = 1234567890123456789012345678901234567890n; // bigint
86
    let myFavoriteSymbol = Symbol("id"); // symbol
87
88
89
    /*
90
    4. What is the difference between implicit and explicit type coercion?
91
92
    93
94
    Explicit Coercion happens when we manually convert a value.
95
96
    */
97
98
    // Implicit
99
100
    console.log(10 + "5"); // "105"
101
102
103
    // Explicit
104
    console.log(Number("5") + 10); // 15
105
106
107
    /*
108
109
    5. Convert a number to a string.
110
    111
112
113 */
```

```
114
115
    let num = 123;
116
    console.log(num.toString(), typeof num.toString()); // "123" string
117
118
119
    console.log("" + num, typeof ("" + num)); // "123" string
120
    /*
121
122
123
    6. Convert a string to a number.
124
     Use `Number()` or `+` operator.
125
126
127
    */
128
    console.log(Number("50"), typeof Number("50")); // 50 number
129
130
131
     console.log(+"50", typeof +"50"); // 50 number
132
133
    /*
134
    7. What is the difference between parseInt() and parseFloat()?
135
136
     parseInt()` converts a string to an integer.
137
138
     parseFloat()` converts a string to a decimal.
139
140
141
    */
142
    console.log(parseInt("99.99")); // 99
143
144
    console.log(parseFloat("99.99")); // 99.99
145
146
    /*
147
148
    8. What are truthy and falsy values?
149
150
151
     Truthy values: non-empty strings, numbers (except 0), true, objects, arrays.
```

```
152
153
     → Falsy values: false, 0, "", null, undefined, NaN.
154
155
     */
156
157
     console.log(Boolean("hello")); // true
158
    console.log(Boolean("")); // false
159
160
161
     /*
162
163
     9. How to check if a variable is `NaN`?
164
165
     Use `Number.isNaN(value)`
166
    */
167
168
169
     console.log(Number.isNaN(NaN)); // true
170
171
     console.log(Number.isNaN("hello")); // false
172
173
    /*
174
    10. What is the output of `typeof NaN`?
175
176
     "number" - NaN is still considered a numeric value in JavaScript.
177
178
179
     */
180
     console.log(typeof NaN); // number (weird JS behavior)
181
182
    /*
183
184
185
     11. How to check if a number is finite?
186
     Use `Number.isFinite(value)`
187
188
189
    */
```

```
190
     console.log(Number.isFinite(100)); // true
191
192
193
     console.log(Number.isFinite(Infinity)); // false
194
195
     /*
196
    12. What is Symbol in JavaScript?
197
198
     > Symbol` is a unique primitive value used for object property keys to avoid name collisions.
199
200
     */
201
202
     const sym1 = Symbol("id");
203
204
205
     const sym2 = Symbol("id");
206
     console.log(sym1 === sym2); // false
207
208
209
     /*
210
    13. What is BigInt in JavaScript?
211
212
     > BigInt` is a primitive used to represent very large integers beyond Number.MAX_SAFE_INTEGER.
213
214
215
     */
216
217
     let bigNum = 987654321987654321987654321n;
218
     console.log(bigNum, typeof bigNum); // bigint
219
220
                                                                                                                                    0
221
     /*
222
223
     14. What is the default value of uninitialized variables?
224

	☐ If a variable is declared but not assigned, it holds the value `undefined`.

225
226
227
    */
```

```
7/16/25, 7:45 PM
 228
 229
      let x;
 230
      console.log(x); // undefined
 231
 232
 233
      /*
 234
      15. Can typeof null be "object"?
 235
 236
      237
 238
 239
      */
 240
      console.log(typeof null); // object
 241
 242
      /*
 243
 244
 245
 246
 247
              Output-Based JavaScript Interview Questions 🦺
 248
 249
 250
      */
 251
 252
      console.log("Output-Based Interview Questions");
 253
      // 1 String + Number
 254
 255
      console.log("10" + 20); // "1020"
 256
 257
      // 2 Number - String
 258
 259
      console.log(10 - "5"); // 5 (string converted to number)
 260
 261
      // 3 Boolean + Number
 262
 263
      console.log(true + 1); // 2 (true is 1)
 264
 265
```

```
266
       4 Boolean - Boolean
267
268
    console.log(false - true); // -1 (false = 0, true = 1)
269
    // 5 Null + Number
270
271
    console.log(null + 10); // 10 (null treated as 0)
272
273
    // 6 Undefined + Number
274
275
276
    console.log(undefined + 10); // NaN (undefined cannot be converted)
277
    // T Empty String + Number
278
279
    console.log("" + 10); // "10" (string concatenation)
280
281
    // 8 Empty String - Number
282
283
    console.log("" - 10); // -10 ("" is treated as 0)
284
285
    // 9 Comparing null and 0
286
287
288
     console.log(null == 0); // false
289
    console.log(null >= 0); // true (unexpected behavior)
290
291
    // 10 Comparing undefined and null
292
293
294
     console.log(undefined == null); // true
295
296
     console.log(undefined === null); // false
297
    // 1 1 Comparing Boolean values
298
299
    console.log(true == "1"); // true (string "1" is converted to number)
300
```

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