






```
1  console.clear();
2
3  /*
4  =====
5
6      📖 JavaScript Interview Questions: Conditional Statements 🔥
7
8  =====
9
10 */
11
12 // 1 Voting Eligibility Checker
13
14 let userAge = 22;
15
16 let isCitizen = true;
17
18 let isRegistered = true;
19
20 // If userAge is greater than or equal to 18 and he/she is a citizen and registered, then he/she is eligible to vote.
21
22 if (userAge >= 18 && isCitizen && isRegistered) {
23
24     console.log("✅ You are eligible to vote.");
25 }
26
27 // If userAge is less than 18 and he/she is not a citizen or not registered, then he/she is not eligible to vote.
28
29 else if (userAge < 18 && (!isCitizen || !isRegistered)) {
30
31     console.log("❌ You are not eligible to vote.");
32 }
33
34 // If userAge is greater than or equal to 18 and he/she is not a citizen, then he/she is not eligible to vote due to
    citizenship status.
35
36 else if (userAge >= 18 && !isCitizen) {
37
```

```
38     console.log("✗ Not eligible due to citizenship status.");
39 }
40
41 // If userAge is greater than or equal to 18 and he/she is not registered, then he/she is not eligible to vote due to
registration status.
42
43 else if (userAge >= 18 && !isRegistered) {
44
45     console.log("✗ Not eligible due to registration status.");
46 }
47
48 else {
49
50     console.log("⚠ All edge cases handled.");
51 }
52
53 // 2 Even or Odd Number Checker
54
55 let number = 5;
56
57 // If number is divisible by 2, then it is an even number else it is an odd number.
58
59 console.log(number % 2 === 0 ? "🟢 Even number." : "🔴 Odd number.");
60
61 // 3 Positive, Negative or Zero Checker
62
63 let myNumber = 4;
64
65 // If number is greater than 0, then it is a positive number.
66
67 if (myNumber > 0) {
68
69     console.log("⊕ Positive number.");
70 }
71
72 // If number is less than 0, then it is a negative number.
73
74 else if (myNumber < 0) {
```

```
75
76     console.log("⚡ Negative number.");
77 }
78
79 // Else, it is a zero.
80
81 else {
82
83     console.log("🟡 Number is zero.");
84 }
85
86 // 4 Leap Year Checker
87
88 let year = 2024;
89
90 // If the year is divisible by 4 and not divisible by 100, or if the year is divisible by 400, then it is a leap year.
91
92 if ((year % 4 === 0 && year % 100 !== 0) || (year % 400 === 0)) {
93
94     console.log(`📅 ${year} is a Leap Year.`);
95 }
96
97 // Else, it is not a leap year.
98
99 else {
100
101     console.log(`📅 ${year} is not a Leap Year.`);
102 }
103
104 // 5 Largest of Three Numbers
105
106 let num1 = 45, num2 = 72, num3 = 89;
107
108 // If all numbers are equal, then print "All numbers are equal."
109
110 if (num1 === num2 && num2 === num3) {
111
112     console.log("👯 All numbers are equal.");
```

```
113 }
114
115 // If num1 is greater than num2 and num1 is greater than num3, then print "num1 is the largest number."
116
117 else if (num1 > num2 && num1 > num3) {
118
119     console.log(`${num1} is the  largest number.`);
120 }
121
122 // If num2 is greater than num1 and num2 is greater than num3, then print "num2 is the largest number."
123
124 else if (num2 > num1 && num2 > num3) {
125
126     console.log(`${num2} is the  largest number.`);
127 }
128
129 // Else, num3 is the largest number.
130
131 else {
132
133     console.log(`${num3} is the  largest number.`);
134 }
135
136 //  Vowel or Consonant Checker
137
138 let char = '0'.toLowerCase();
139
140 // If the character is a lowercase alphabet, check if it is a vowel or a consonant.
141
142 if (char >= 'a' && char <= 'z') {
143
144     // If the character is 'a', 'e', 'i', 'o', or 'u', print "Vowel".
145
146     if ("aeiou".includes(char)) {
147
148         console.log( Vowel");
149     }
150 }
```

O

```
151     // Else, print "Consonant".
152
153     else {
154
155         console.log("🔵 Consonant");
156     }
157 }
158
159 // Else, print "Invalid character input."
160
161 else {
162
163     console.log("❌ Invalid character input.");
164 }
165
166 // 🟢 ATM Withdrawal System
167
168 let balance = 1000;
169
170 let withdrawAmount = 250;
171
172 // Check if the withdrawal amount is greater than the balance or not
173
174 if (withdrawAmount > balance) {
175
176     console.log("💸 Insufficient funds.");
177 }
178
179 // Check if the withdrawal amount is a multiple of 10
180
181 else if (withdrawAmount % 10 !== 0) {
182
183     console.log("💡 Enter a valid amount (multiple of 10).");
184 }
185
186 // Deduct the withdrawal amount from the balance
187
188 else {
```

```
189
190     balance = balance - withdrawAmount;
191
192     console.log(`✅ Withdrawal successful! 💰 Remaining balance: ${balance}`);
193 }
194
195 // 8 Grade Calculator
196
197 let percentage = 85;
198
199 // If percentage is between 90 and 100, print "Grade: A".
200
201 if (percentage >= 90 && percentage <= 100) {
202
203     console.log("🎓 Grade: A");
204 }
205
206 // If percentage is between 80 and 90, print "Grade: B".
207
208 else if (percentage >= 80) {
209
210     console.log("🎓 Grade: B");
211 }
212
213 // If percentage is between 70 and 80, print "Grade: C".
214
215 else if (percentage >= 70) {
216
217     console.log("🎓 Grade: C");
218 }
219
220 // If percentage is between 60 and 70, print "Grade: D".
221
222 else if (percentage >= 60) {
223
224     console.log("🎓 Grade: D");
225 }
226
```

```
227 // Else, print "Grade: F".
228
229 else {
230
231     console.log("🎓 Grade: F");
232 }
233
234 // 9 Armstrong Number Checker (Three-digit only): If a number is an Armstrong number, it is equal to the sum of its own
    digits raised to the power of the number of digits.
235
236 // 153 = 1^3 + 5^3 + 3^3
237
238 let num = 153;
239
240 // Storing the original number for later use
241
242 let originalNum = num;
243
244 // Initialize a variable to store the sum
245
246 let sum = 0;
247
248 // Loop through each digit and calculate the sum
249
250 while (num > 0) {
251
252     // Get the last digit
253
254     let digit = num % 10;
255
256     // Add the digit to the sum
257
258     sum += digit ** 3;
259
260     // Remove the last digit
261
262     num = Math.floor(num / 10);
263 }
```

```
264
265 // Check if the sum is equal to the original number
266
267 if (sum === originalNum) {
268
269     console.log(`${originalNum} is an Armstrong Number.`);
270 }
271
272 else {
273
274     console.log(`${originalNum} is NOT an Armstrong Number.`);
275 }
276
277 // 1 0 Switch Statement Example
278
279 let day = 3;
280
281 let dayName = "";
282
283 // If day is 1, then dayName is Monday and so on
284
285 switch (day) {
286
287     case 1: dayName = "Monday"; break;
288
289     case 2: dayName = "Tuesday"; break;
290
291     case 3: dayName = "Wednesday"; break;
292
293     case 4: dayName = "Thursday"; break;
294
295     case 5: dayName = "Friday"; break;
296
297     case 6: dayName = "Saturday"; break;
298
299     case 7: dayName = "Sunday"; break;
300
301     default: dayName = "Invalid day"; break;
```



```
302 | }  
303 |  
304 | console.log(`📅 Today is: ${dayName}`);
```