

7. Control Flow\challenge029\ch029.js

```
1 // -----CHALLENGE 1-----
2
3 // STEP 1
4 const favNumber = 22;
5 const comp1 = favNumber < 22;
6 const comp2 = favNumber > 4;
7 const comp3 = favNumber >= 21;
8 const comp4 = favNumber <= 8;
9
10 console.log(comp1, comp2, comp3, comp4);
11 // STEP 2
12 const name = "Mayra";
13 let comp5, comp6, comp7, comp8;
14
15 // STEP 3
16 comp5 = "5" == 5; // true
17 comp6 = name === "Maria"; // false
18 comp7 = "cat" != 6; // true
19 comp8 = "8" !== 8; // true
20
21 // STEP 4
22 console.log(comp5, comp6, comp7, comp8);
23
24 // -----CHALLENGE 2-----
25
26 // VARIABLE GLOSSARY
27 const superManIsTheBestSuperHero = true; // 🦹
28 const batManIsTheBestSuperHero = false; // literally, no super powers 😬
29 const gameOfThronesSeason8WasTerrible = true; // like really true
30 const androidIsSuperiorToApple = false; // come at me 🤖
31 const greatTVShow = "The Office";
32 const notSoGreatTVShow = "How I Met Your Mother";
33 const bestPetToOwn = "dog";
34 const notBestPetToOwn = "cat"; // I love all pets. Just cats a bit less than dogs ... sorry 🐶🐱
35 const bestTypeOfFood = "Hispanic"; // 🌮🌯🌯
36 const bestMusic = undefined; // always different for me 🎧
37
38 // STEP 1
39 const value1 = superManIsTheBestSuperHero && gameOfThronesSeason8WasTerrible; //truthy + truthy;
right truthy = true
40 const value2 = gameOfThronesSeason8WasTerrible && notSoGreatTVShow; // truthy + truthy = true; right
truthy - 'How I Met Your Mother'
41
42 // STEP 2
43 const value3 = batManIsTheBestSuperHero || androidIsSuperiorToApple; // falsy + falsy; right falsy =
false
44 const value4 = bestMusic || bestPetToOwn; // falsy + truthy = true; first truthy - 'dog'
45
46 // STEP 3
47 const value5 = !bestMusic; // undefined - falsy > not falsy> true
48 const value6 = !bestTypeOfFood; // truthy> not truthy> false
49
50 console.log(value1, value2, value3, value4, value5, value6);
51
52 // STEP 4 (Bonus Step)
53 const guest = {};
54 guest.name = "Paul";
55 guest.age = 32;
56 guest["has identification"] = true;
57 guest["identification is real"] = true;
58 guest["face matches identification"] = true;
```

```

59 console.log(guest);
60
61
62 /* let nameToBeAddedToTheGuestLis;
63  if (guest.age >= 21 && guest['has identification'] == true && guest['identification is real'] ==
64  true && guest['face matches identification'] == true){
65
66      nameToBeAddedToTheGuestLis = guest.name;
67      }
68
69  else {
70      nameToBeAddedToTheGuestLis = `Sorry, ${guest.name} you're not getting into the event.`
71  }
72  */
73
74 // Here is the kicker, you should be able to do this using only a combination of Comparison &
75 Logical Operators
76
77 // Explanation at 25:18
78
79 const nameToBeAddedToTheGuestLis =
80 (guest.age >= 21 &&
81  guest["has identification"] &&
82  guest["identification is real"] &&
83  guest["face matches identification"] &&
84  guest.name) ||
85  `Sorry, ${guest.name} you're not getting into the event.`;
86
87 console.log(nameToBeAddedToTheGuestLis);
88
89 // -----CHALLENGE 3-----
90
91 // STEP 1
92 const num = 10;
93
94 // STEP 2
95 if (num > 0) {
96     console.log(`it's positive`);
97 }
98 if (num < 0) {
99     console.log(`it's negative`);
100 }
101 if (num == 0) {
102     console.log(`it's zero`);
103 }
104
105 // STEP 3
106 // Refactor above
107
108 const num1 = -10;
109
110 if (num1 > 0) {
111     console.log(`it's positive`);
112 } else if (num1 < 0) {
113     console.log(`it's negative`);
114 } else if (num1 == 0) {
115     console.log(`it's zero`);
116 }
117
118 // STEP 4
119 // Refactor above
120
121 const num2 = 0;

```

```

122 if (num1 > 0) {
123     console.log(`it's positive`);
124 } else if (num2 < 0) {
125     console.log(`it's negative`);
126 } else {
127     console.log(`it's zero`);
128 }
129
130 // -----CHALLENGE 4-----
131
132 // STEP 1
133 const temperature = 84;
134 let kindOfDay;
135
136 // STEP 2
137
138 /*
139  if (temperature > 98) {
140      kindOfDay = 'super hot';
141      console.log(`I'm staying inside next to the AC`);
142  }
143  else if (temperature > 84 && temperature < 99 ) {
144      kindOfDay = 'a little warm';
145      console.log(`I'll head out for a bit, but I'm wearing shorts`);
146  }
147  else if (temperature > 69 && temperature < 85) {
148      kindOfDay = 'perfect';
149      console.log(`It's perfect outside. I think I'll go to the park`);
150  }
151  else if (temperature > 54 && temperature < 70) {
152      kindOfDay = 'chilly';
153      console.log(`I'd better bring a jacket`);
154  }
155  else {
156      kindOfDay = 'freezing';
157      console.log(`Heck no! I'm staying inside where it's warm`);
158  }
159
160  if (temperature !== undefined)
161      {
162          console.log(`Looks like it's going to be ${kindOfDay} today`);
163      }
164  */
165
166 if (temperature > 98) {
167     kindOfDay = "super hot";
168     console.log(`I'm staying inside next to the AC`);
169 } else if (temperature > 84) {
170     kindOfDay = "a little warm";
171     console.log(`I'll head out for a bit, but I'm wearing shorts`);
172 } else if (temperature > 69) {
173     kindOfDay = "perfect";
174     console.log(`It's perfect outside. I think I'll go to the park`);
175 } else if (temperature > 54) {
176     kindOfDay = "chilly";
177     console.log(`I'd better bring a jacket`);
178 } else {
179     kindOfDay = "freezing";
180     console.log(`Heck no! I'm staying inside where it's warm`);
181 }
182
183 if (kindOfDay) {
184     console.log(`Looks like it's going to be ${kindOfDay} today`);
185 }

```

```
186
187 // -----CHALLENGE 5 (Bonus Challenge 🤖) -----
188
189 const value7 = true;
190 const value8 = false;
191 const value9 = "6";
192 const value10 = "cat";
193 const value11 = 0;
194
195 // -----Uncomment The Below Lines Of Code-----
196
197 if (value7) {
198     // if(value7 === true)
199
200     console.log("a");
201 }
202
203 if (!value8) {
204     // if (value8 == false)
205
206     console.log("b");
207 }
208
209 if (value9 == 6) {
210     // if (value9 === '6' || value9 === 6)
211
212     console.log("c");
213 }
214
215 if (value10) {
216     // if (value10 != undefined)
217
218     console.log("d");
219 }
220
221 if (!value11) {
222     // if(value11 === undefined || value11 == "" || value11 === 0
223     console.log("e");
224 }
225
```