

Make a new repo on GitHub, connect it to your local repo called **javascript-challenges-conditionals**. Then push all new files and changes to the remote repo on Github (check Git notes for new project)

You can keep all these challenges within the same .js file since some challenges use variables from the priors

Remember to run the code, make sure you're in the right directory in the terminal and run

```
node.js <js file name>
```

Also `//` are just comments

-----

## **Challenge 1) Check if Number is Odd or Even**

Declare a variable `num` and set it to any number

Write an if else conditional that `console.log`s “num is even” if num is even, or else `console.log` “num is odd”

Hint: You'll have to use the `%` operator for the condition

```
(x % 2 == 0)
```

## **Challenge 2) Comparing Two Variables**

Declare a variable `x` equal to 10

Declare a variable `y` equal to 100

Write an if else statement that compares `x > y`

`Console.log` 'x is bigger' if it's bigger than `y`

`Console.log` 'y is bigger' if it's bigger than `x`

### **Challenge 3) Nested If Statements**

Declare a variable called `didOJDoIt` and make it either `true` or `false` (no quotes because this is a boolean, not a string)

Declare another variable called `delusional` and make it `true` or `false`

Write an if else statements that checks if `didOJDoIt` is `true` or `false`, and based on that use another nested if else statement to check if you're `delusional` and `console.log` one of the following outcomes:

```
didOJDoIt: True
delusional: True
// console.log('Even delusional people know he did it');
```

```
didOJDoIt: True
Delusional: False
// console.log('You know the truth.');
```

```
didOJDoIt: False
delusional: True
// console.log('You're delusional get a job');
```

```
didOJDoIt: False
delusional: False
// console.log('You're just an idiot');
```

When using booleans in an if statement, just putting the variable in the condition checks if it's true or not. For example assume `didOJDoIt` is true.

```
if (didOJDoIt) {
  console.log('correct');
}
```

```
// output is 'correct'
```

If you have `didOJDoIt` set to `true`, and `delusional` set to `false`, it might look something like this:

```
if (didOJDoIt) {  
  if (delusional) {  
  
  } else {  
    console.log('You know the truth.');  }  
}
```

Fill in the rest of the if else blocks with the other outcomes

### Challenge 4) Switch Statement

Declare a variable `season` and set it to 'winter', 'spring', 'summer', or 'fall'

Write a switch statement that takes `season` and `console.log`s the following based on the `season`:

```
// 'winter' outputs 'brrrrrr'  
// 'spring' outputs 'tornado season'  
// 'summer' outputs 'hell yeah'  
// 'fall' outputs 'football season mf'
```

## Challenge 5) Multiple Conditional Problem (HARD)

We're going to convert a number to a letter grade using the following system:

90 - 100 -> A

80 - 89 -> B

70 - 79 -> C

60 - 69 -> D

50 - 59 -> F

Declare a variable called `num` to any number between 50 - 100

Create an if else statement that also includes multiple else ifs conditions, to `console.log` the corresponding letter grade

You will have to use the `&&` operator for the conditions (check JS notes)

```
// if num = 76
```

```
// output would be C
```