Part 1: Find the culprits and nail them — debugging javascript

https://medium.com/@reach2arunprakash/guvi -zen-class-find-the-culprits-and-nail-them-9ee6c67c44fb

Only solutions are below. For question refer the above link to practice.

Question 1: Find the culprit

Question #2: Find the culprit and invoke the alert

```
<!-- <!DOCTYPE html>
<html>
<body>
<script src="script.js"></script> //double quotes missing
```

```
alert("I'm invoked!"); //double quotes is missing
  </body>
  </html>-->
```

```
//Question #3 Explain the below how it works
<!DOCTYPE html>
<html>
<body>
 <script src="script.js"></script>
</body>
</html>
Explanation : We can have as many statements in the code as we want. Another
statement can be separated with a semicolon.
alert("I'm JavaScript!");
alert('Hello') // this line is not having semicolon
A semicolon may be omitted in most cases when a line break exists.JavaScript
interprets the line break as an "implicit" semicolon. Also called as automatic
semicolon insertion.
alert(`Wor
ld`)
alert(3 +
+ 2); //this is multiple line code and its working
JavaScript does not insert semicolons here. It is intuitively obvious that if the
line ends with a plus "+", then it is an "incomplete expression", no semicolon
required. And in this case that works as intended.
```

Question#4 Fix the below to alert Guvi geek:

```
<!DOCTYPE html>
<html>
<body>
```

```
<script src="script.js"></script>
</body>
</html>
let admin=9, fname=10.5;
fname = "Guvi";
lname = "geek"
admin = fname+" "+lname;
alert( admin ); // "Guvi geek"
```

Question#5 Fix the below to alert hello Guvi geek:

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

let fname=10.5;
fname = "Guvi";
lname = "geek"
let name = fname+" "+lname;
alert(`hello ${name}`);
```

Question#6 Fix the below to alert sum of two numbers

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

let a = +prompt("First number?");
let b = +prompt("Second number?");
alert (a+b);
```

Question#7 **If you run the below scritpt you will get** "Code is Blasted"

Explain Why the Code is blasted and how to diffuse it and get "Diffused".

Solution: Here 2 is not greater than 12 that why its diffused here. Change the condition and in string it will compare "2" vs "12" i.e 2 vs 1 then 2.

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

var a = "2" < "12";
//Don't touch below this
if (a) {
  console.log("Code is Blasted")
}
else
{
  console.log("Diffused")
}
```

Question#8 How to get the success in console.

Solution here as follows:

Question:9: How to get the correct score in console. Solution here:

Question#10 Fix the code to welcome the Employee Solution Here...

Question#11: Fix the code to welcome the boss

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>
let message;
if (null || 2 || undefined )
{
message = "welcome boss";
}
else
{
   message = "Go away";
}
   console.log(message);
}
```

Question#12: Fix the code to welcome the boss

```
// You cant change the value of the msg

let message;
let lock;
//Dont change any code below this
if (null || lock || undefined )
{
   message = "Go away";
}
else
{
   message = "welcome";
}
   console.log(message);
```

Question#13: Fix the code to welcome the boss

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

let message;
let lock;
//Dont change any code below this
if (lock && " " || undefined )
{
    message = "Go away";
}
else
{
    message = "welcome";
}
console.log(message);
```

Question#14 Change the code to print

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

let i = 3;
while (i) {
   console.log( i-- );
}
```

Question#15 Change the code to print 1 to 10 in 4 lines

Question#16 Change the code to print even numbers

Question#17: Change the code to print all the gifts

Question#18 : Fix the code to disarm the bomb. Solution here..Change the condition and count ++

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

let countdown = 100;
while (countdown > 0) {
   countdown++;
   if(countdown == 0)
   {
     console.log("bomb triggered");
   }
}
```

Question#19: Whats the msg printed and why?

```
<!DOCTYPE html>
<html>
```

```
<body>
    <script src="script.js"></script>
    </body>
    </html>

var lemein = "0";
var lemeout = 0;
var msg = "";
if (lemein) {
    msg += "hi";
    }
if (lemeout) {
    msg += 'Hello';
}
console.log(msg);
```

The output is "hi" and it is because the string 0 is passed inside if statement becomes true and the number 0 is false.

Question#19: Whats the msg printed and why? Guess you answer before running it.

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

var lemein = "0";
var lemeout = 0;
var msg = "";
if (lemein) {
    msg += "hi";
    }
if (lemeout) {
    msg += 'Hello';
}
```

```
console.log(msg);
```

The output is "hi" and var msg="" holds a string

Part 3: Find the culprits and nail them — debugging javascript

Fix the code to get the largest of three.

```
<!DOCTYPE html>
<html>
<body>
<script src="script.js"></script>
</body>
</html>

aa = (f,s,t) => {
    if(f>s &&f>t){
    console.log(f)}
    else if(s>f && s>t){
    console.log(s)}
    else{
    console.log(t)}
}
aa(1,2,3);
```