Quiz 6:

1. Write a function to find the length of the diagonal of a square,
Formula: if x is one side of the square, then the diagonal = x * √2

2. Suppose a web page has a single h2 element, and the content in the h2 is currently, Avast!
After this code is executed, what will the content of the h2 be?

```
let content = document.querySelector("h2").innerHTML;
content = `${content} Ya lubber! `;
document.querySelector("h2").innerHTML = content;
```

3. What does the following print on the console?

```
let n = 1, result = "";
while (n <= 3) {
result = result + n + " ";
n = n + 1;
}
console.log(`result = ${result}`);
```

4. What does the following print on the console?

```
let s = "A, B, C";
let arr = s.split(", ");
console.log(arr.length);
```

5. What does The following print on the console?

```
let m = 1, n = 2;
m = m + n;
n = m;
console.log(m + " " + n);
```

6. What value is printed on the console?

```
function SML(size){
if (size < 10)
    return "Small";
else if (size < 100)
    return "Medium" ;
else
    return "Large";
}
console.log(SML(32));
```

7. What value is printed on the console?

```
let brekkies = ["Eggs", "Spam"];
console.log(`${brekkies[1]}, ${brekkies[1]}, ${brekkies[0]}, and ${brekkies[1]}!`);
```

8. what value this function returns when n is an odd number?

```
let mystery = function(n){
        if(n % 2 != 0){
                return true;
        }
        else{
                return false;
        }
}
```

9. The following has a syntax error. What is that?

```
let function isCelery(veggie){
        return (veggie === "carat");
}
```

10. what value the following displays if the user enters 2 at the prompt?

```
let n = prompt("enter a number");
console.log(4 + n);
```

11. What is printed on the console?

```
let k = 123;
console.log(Math.floor(k / 10));
```

12. What value is printed on the console?

```
let digits = "0123456789";
console.log(digits.indexOf(3));
```

13. what value the following code print on the console?

```
let laws = "";
for(let i = 1; i <= 3){
        laws = laws + " Repetition ";
}
console.log(laws);
```

14. What does the following code prints on the console?

```
let rokyIsWired = true;
let rokyDownTime = true;
let isRokyCrashed = (!rokyIsWired || rokyDownTime);
console.log(isRokyCrashed);
```

15. What is the correct syntax for connecting a web page to an external file, myScript.js, which is located in the same folder as the .html file that contains this script element?

16. Convert the while loop into for loop?

```
let j = 0, ans = "";
while( j < 3 ){
        ans = ans + j + " ";
        j++ ;
};
console.log(ans);
```

17. What does this code print on the console?

```
let notEqual = function(i, j){
        return (i != j)
}
console.log(notEqual(2, 3));
```

18. If the following code is executed today (August 7, 2019), what value will be printed on the console?

```
function isWeekend(d) {
        if ((d == 0) || (d == 6))
            return true;
        else
            return false;
}

let day = new Date();
let dayOfWeek = day.getDay();
console.log(isWeekend(dayOfWeek));
```

19. explain what the fastForward function returns?

```
let fastForward = function(dateStr) {
        let now = new Date(dateStr);
        let offset = 1000;
        now.setTime(now.getTime() + offset);
        return now;
};
```

20. Write a function that takes a four digit year and returns true if it's a century year (for example, 2100, 2200, 2000, 1900, 1800, etc), otherwise return false.