

## Explanation of Code logic in script.js file

```
> JS script.js > answerCheck
var optionsSelected = [];
var actualAnswers = ["<img >", "background-image: url('');",
    "transform: rotate();", "<h1 >", "/* This is a comment. */"];
let totalOptions = document.querySelectorAll("input");
let totalAnswers = document.querySelectorAll("label");
var score = 0;

function answerCheck() {
    collectSelected();
    checkScore();
    // console.log(score);
    document.getElementById("result").innerHTML = `You have scored ${score} out of 5`;
}

function collectSelected() {
    for (var i = 0; i < totalOptions.length; i++) {
        if (totalOptions[i].checked) {
            optionsSelected.push(totalAnswers[i].innerHTML);
        }
    }
}

function checkScore() {
    for (let j = 0; j < actualAnswers.length; j++) {
        if (optionsSelected[j] == actualAnswers[j]) {
            score++;
        }
    }
}
```

The above code consists of 3 functions, where `answerCheck()` function is the main function which is being called on click of the submit button.

### Explanation for `collectSelected()` function

The `collectSelected()` function basically collects the **innerHTML text** from those options that are **selected** and **stores** them in the **empty array optionsSelected**.

### **Explanation for the checkScore() function**

The checkScore() function basically runs a loop to check if all the values in the optionsSelected array match with that of **actualAnswers array**. If both the value matches, then the **score counter** is incremented.

### **Explanation for the answerCheck() function**

The answerCheck() function is the **main function** that is being called when clicking the **submit button** in the **index.html** file. Furthermore, this function calls the other two functions in a **sequence** (first the collectSelected() is called and after that checkScore() is called) and finally displays the score in a div.

Below are few snapshots of the design of my quiz

Welcome to the Quiz!

What do you know about HTML and CSS ?

Let's check it out!

Start

Which HTML tag from below is used to display an image?

- ☐ < img >
- ☐ < a >
- ☐ < image >

Next

Also, I have taken a snapshot of the html code below which displays the div structure arrangement which I have kept the **same** for **each question**.

```
<main>
  <div class="quiz font">

    <div class="question" id="q2">
      <div class="card">
        <p>Which is CSS property is used to set the
        background image?</p>
        <div>
          <input type="radio" name="option1"
            id="card2opt1">
          <label for="card2opt1">&lt; img &gt;</
            label>
        </div>
        <div>
          <input type="radio" name="option1"
            id="card2opt2">
          <label for="card2opt2">&lt; a &gt;</
            label>
        </div>
        <div>
          <input type="radio" name="option1"
            id="card2opt3">
          <label for="card2opt3">background-image:
            url('');</label>
        </div>
        <div class="btn">
          <a href="#q3">Next</a>
        </div>
      </div>
    </div>
  </div>
```