

## 7.8 Demo Code

### restaurant.js

```
function runActivity() {  
    let items = ["potato", "cooking oil", "eggs", "bacon"];
```

```
    function showItems() {  
        for (let i = 0; i < items.length; i++) {  
            console.log(items[i]);  
        }  
    }  
}
```

```
function addItem(item) {  
    items.push(item);  
    console.log("Added " + item + " to items list");  
}
```

```
function getItemCount() {  
    return items.length;  
}
```

```
addItem("milk");  
addItem("pineapple");  
showItems();  
console.log("Number of items: " + getItemCount());  
}
```

### temperature.js

```
function runActivity() {  
    function toCelsius(f) {  
        let cel = ((f - 32) * 5) / 9;  
        return cel;  
    }  
}
```

```
let fah = Number(prompt("Give me a fahrenheit value.")); //fah = 50  
console.log(fah + " in Celsius is " + toCelsius(fah));  
}
```

# test.html

```
<!DOCTYPE html>
```

```
<html lang="en">
```

```
<head>
```

```
<meta charset="UTF-8" />
```

```
<meta name="viewport" content="width=device-width, initial-scale=1.0" />
```

```
<title>Document</title>
```

```
<script>
```

```
function solveTriangle(b, h) {
```

```
    let area = (h * b) / 2;
```

```
    return area;
```

```
}
```

```
function solveCircle(r) {
```

```
    let area = Math.PI * r * r;
```

```
    return area;
```

```
}
```

```
function solveRectangle(l, w) {
```

```
    let area = l * w;
```

```
    return area;
```

```
}
```

```
function run() {
```

```
    let choice = Number(
```

```
        prompt(
```

```
            "What shape would you like to solve for? (0) Triangle, (1) Circle, (2) Rectangle"
```

```
        )
```

```
    );
```

```
    switch (choice) {
```

```
        case 0:
```

```
            let base = Number(prompt("What is the base of the triangle?"));
```

```
            let height = Number(prompt("What is the height of the triangle?"));
```

```
            console.log(solveTriangle(base, height));
```

```
            break;
```

```
        case 1:
```

```
            let radius = Number(prompt("What is the radius of the circle?"));
```

```
            console.log(solveCircle(radius));
```

```
break;
```

```
case 2:
```

```
let length = Number(prompt("What is the length of the rectangle?"));
```

```
let width = Number(prompt("What is the width of the rectangle?"));
```

```
console.log(solveRectangle(length, width));
```

```
break;
```

```
default:
```

```
console.error("ERROR: Invalid input!");
```

```
}
```

```
}
```

```
</script>
```

```
</head>
```

```
<body>
```

```
<h1>Testing</h1>
```

```
<button onclick="run()">Run</button>
```

```
</body>
```

```
</html>
```