JAVASCRIPT

SOLUTIONS

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JAVASCRIPT SOLUTIONS

PART I - DOM

2.

Inside *script.js*:

```
alert('Hello World!');
```

Inside *script.js*:

```
console.log('Hello World!');
```

3.

Inside *script.js*:

```
let products = document.getElementById('products');
console.log(products);
```

Inside *script.js*:

```javascript
window.addEventListener('load', function() {
  let products = document.getElementById('products');
  console.log(products);
});
```

Modify *index.html*:

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

4.

Inside *script.js*:

```javascript
console.log(document.getElementsByTagName('form')[0]);

console.log(document.querySelector('form label:nth-child(2) input'));
console.log(document.querySelector('form input[name=quantity]'));
//alternative

let inputs = document.querySelectorAll('form input');
for (let i = 0; i < inputs.length; i++)
  console.log(inputs[i]);
```

Then, replace last line with:

```javascript
console.log(inputs[i].outerHTML);
```

5.

Inside *script.js*:

```javascript
let form = document.getElementsByTagName('form')[0];
form.addEventListener('submit', function(event) {
  alert('Submitted!');
```

```
    event.preventDefault();
});
```

6.

Inside *script.js*:

```
let form = document.getElementsByTagName('form')[0];

form.addEventListener('submit', function(event) {
  let line = document.createElement('tr');

  let description = document.querySelector('form
input[name=description]').value;
  let quantity = document.querySelector('form
input[name=quantity]').value;

  line.innerHTML = `<tr><td>${description}</td><td><input
value="${quantity}"></td><td><input type="button" value="Remove">
</tr>`;

  let table = document.getElementById('products');
  table.append(line);

  event.preventDefault();
});
```

7.

Inside *script.js*:

```
let form = document.getElementsByTagName('form')[0];

form.addEventListener('submit', function(event) {
  let line = document.createElement('tr');

  let description = document.querySelector('form
input[name=description]').value;
```

```javascript
    let quantity = document.querySelector('form
input[name=quantity]').value;

    line.innerHTML = `<tr><td>${description}</td><td><input
value="${quantity}"></td><td><input type="button" value="Remove">
</tr>`;

    let table = document.getElementById('products');
    table.append(line);

    let remove = line.querySelector('input[type=button]');

    remove.addEventListener('click', function() {
        this.parentNode.parentNode.remove();
    });

    event.preventDefault();
});
```

8.

Create this function inside *script.js*:

```javascript
function updateTotal() {
  let total = 0;
  let lines = document.querySelectorAll('table tr');
  for (let i = 0; i < lines.length; i++) {
    console.log(lines[i]);
    let input = lines[i].getElementsByTagName('input')[0];
    if (input != null)
    total += Number(input.value);
  }
  let span = document.getElementById('total');
  span.innerHTML = total;
}
```

Call it when a new line is added:

```javascript
form.addEventListener('submit', function(event) {
    ...
```

```
    updateTotal();
    event.preventDefault();
});
```

When a line is removed:

```
remove.addEventListener('click', function() {
    this.parentNode.parentNode.remove();
    updateTotal();
});
```

When a value is modified:

```
form.addEventListener('submit', function(event) {
  ...
  let input = line.getElementsByTagName('input')[0];
  input.addEventListener('change', updateTotal);
  ...
});
```

Complete script:

```
let form = document.getElementsByTagName('form')[0];

form.addEventListener('submit', function(event) {
  let line = document.createElement('tr');

  let description = document.querySelector('form
input[name=description]').value;
  let quantity = document.querySelector('form
input[name=quantity]').value;

  line.innerHTML = `<tr><td>${description}</td><td><input
value="${quantity}"></td><td><input type="button" value="Remove">
</tr>`;

  let input = line.getElementsByTagName('input')[0];
  input.addEventListener('keyup', updateTotal);

  let table = document.getElementById('products');
  table.append(line);
```

```javascript
    let remove = line.querySelector('input[type=button]');

    remove.addEventListener('click', function() {
        this.parentNode.parentNode.remove();
        updateTotal();
    });

    updateTotal();
    event.preventDefault();
});

function updateTotal() {
    let total = 0;
    let lines = document.querySelectorAll('table tr');
    for (let i = 0; i < lines.length; i++) {
        console.log(lines[i]);
        let input = lines[i].getElementsByTagName('input')[0];
        if (input != null)
        total += Number(input.value);
    }
    let span = document.getElementById('total');
    span.innerHTML = total;
}
```

PART II - AJAX

- Complete solutions: 🗜 solution_javascript_part2.zip

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