# Homework: JavaScript DOM & Events

This document defines the homework assignments from the [“JavaScript Basics“ Course @ Software University](http://softuni.bg/courses/javascript-basics/). Please submit as homework a single zip / rar / 7z archive holding the solutions (source code) of all below described problems.

## Webinar registration form

Create an **HTML** page that looks like the example below. Your task is to write a JavaScript **function** that shows and hides the invoice information if the checkbox “Желая фактура” is checked or not. Example:

|  |  |
| --- | --- |
| **Unchecked checkbox** | **Checked checkbox** |
|  |  |

## Email only field

Write a HTML page holding a text field, a div and a button. Write a JavaScript function that is called when the button is clicked. The function copies the value of the text field and pastes it in the div. If the value of the text field is a valid email (containing a ‘@’ character and a domain e.g. ‘softuni.bg’), the div’s background is set to light green. If the value of the text field is an invalid email, the div’s background is set to red. Example:

|  |  |
| --- | --- |
| **Invalid email** | **Valid email** |
|  |  |

## Create a paragraph generator function

Create a JavaScript function **createParagraph(id, text).** It creates a paragraph DOM element with text (the text value that has been passed as an argument). After the element has been created it is appended to a html element with id that has been passed as an argument in the function. Example:

|  |  |
| --- | --- |
| **Input HTML** | **Output HTML** |
| <html>  <body>  <div id="wrapper"></div>  <script src="script.js"></script>  </body>  </html> | <html>  <body>  <div id="wrapper">  <p>Some text</p>  </div>  <script src="script.js"></script>  </body>  </html> |
| createParagraph('wrapper', 'Some text'); |

## Create HTMLGenerator object

Create a JavaScript object named **HTMLGenerator**. The object has a couple of functions attached to it:

* **createParagraph(id, text)** -> creates a <p></p> HTML element that is attached to the id of the element, passed as an argument. The paragraph’s text is passed as an argument of the function as well.
* **createDiv(id, class)** -> creates a <div></div> HTML element that is attached to the id of the element, passed as an argument. The div’s class is passed as an argument of the function as well.
* **createLink(id, text, url)** -> creates a <a></a> HTML element that is attached to the id of the element, passed as an argument. The link’s text and url are passed as arguments of the function as well.

Example:

|  |  |
| --- | --- |
| **Predefined HTML** | |
| <**body**>  <**div** id="wrapper"></**div**>  <**div** id="book"></**div**>  <**script** src="script.js"></**script**> </**body**> | |
| **Input** | **Output** |
| HTMLGen.createParagraph('wrapper', 'Soft Uni');  HTMLGen.createDiv('wrapper', 'section');  HTMLGen.createLink('book', 'C# basics book', 'http://www.introprogramming.info/'); | <**div** id="wrapper">  <**p**>Soft Uni</**p**>  <**div** class="section"></**div**> </**div**> <**div** id="book">  <**a** href="http://www.introprogramming.info/">C# basics book</**a**> </**div**> |