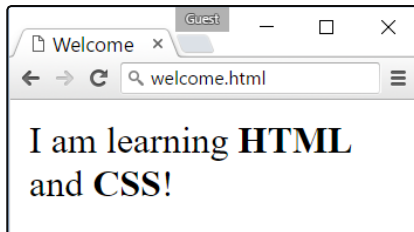# Lab Exercises: HTML5 and CSS

Problems for exercises and homework for the "Software Technologies" course @ SoftUni.

I.   HTML5

1. Welcome to HTML

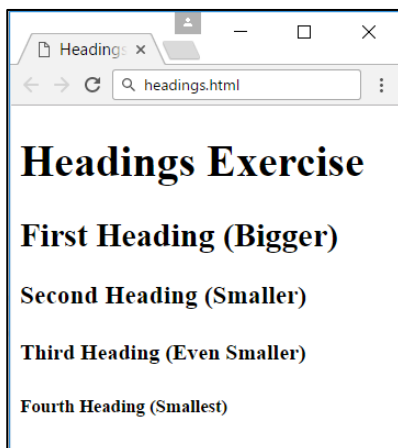Create a Web page, which looks like the screenshot:

- *File name:* **welcome.html**
- *Title:* Welcome
- *Paragraph of text:* I am learning **HTML** and **CSS**!

Hints

- Modify the code from the examples in the slides.

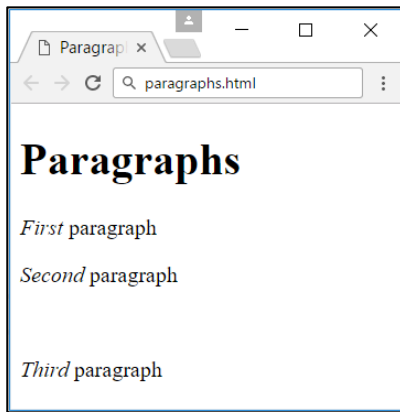## 2. Headings

Create a Web page like the screenshot:

- *File name*: **headings.html**
- *Title:* Headings
- *Large heading:* "**Headings Exercise**"
- *Smaller headings:* [**First**…**Fourth**] **Heading**

Hints

- Use **<h1>** through **<h5>** tags.

Follow us:

3. Paragraphs

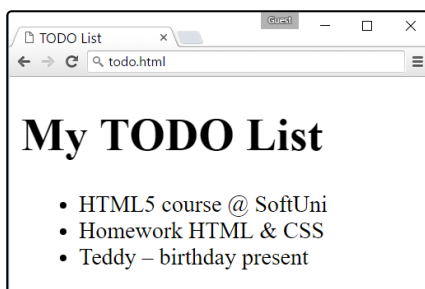Create a Web page like the screenshot:

- *File name*: **paragraphs.html**
- *Title:* Paragraphs
- *Large heading:* "**Paragraphs**"
- *Emphasized text:* **First**, **Second** and **Third paragraph**
- **Empty line** between the **second** and **third** paragraph

Hints

Use **<p>**, **<em>** and **
** tags.
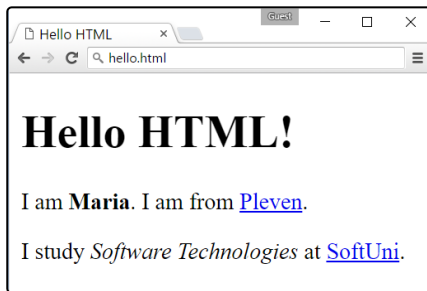
4. My TODO List

Create a Web page like the screenshot:

- *File name:* **todo.html**
- *Title:* TODO List
- *Large heading:* My TODO List
- *Unordered list:* **
…
**
- *Three list elements:* **
…
**

Hints

- Create an HTML file named **todo.html** like in the previous exercises.
- Assign the **<title>**…**<title>**.
- Use **
…
** to create an unordered list.
- Put each of the list items in a **
…
** tag.
- Use **&** for the **ampersand** (**&**)
- Use **–** for the **long hyphen** (**–**).

5. Hello HTML

Create a Web page like the screenshot:
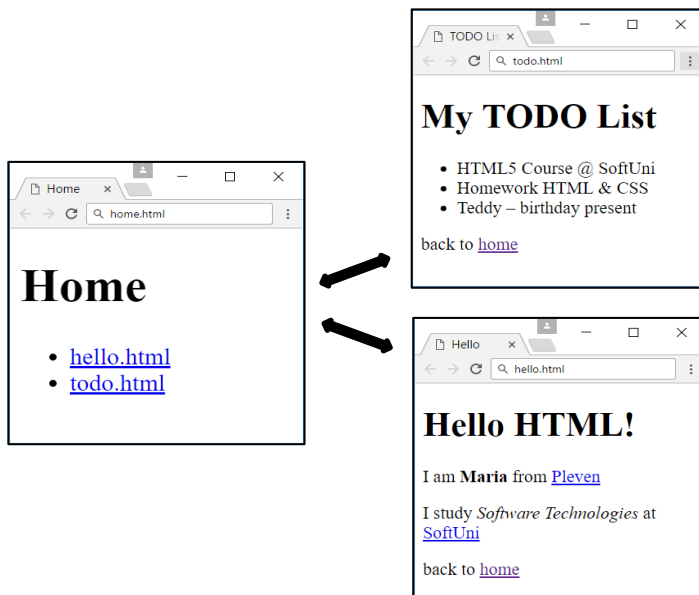

- *File name:* `hello.html`
- *Title:* "**Hello HTML**"
- *Large heading:* "**Hello HTML!**"
- *Paragraph of text:* I am <**your name** (**bold**)>. I am from <**your town as link to your town's Web site**>.
- *Paragraph of text:* I study <***specialty* (*italic*)>** at <**link to SoftUni**>.

Hints

- Modify the code from the example in the slides.

6. Website

Create three web pages connected to each other by local links like the screenshot below:

- *File names:* `home.html`, `todo.html`, `hello.html`
- *Titles:* **Home**, **TODO List**, **Hello**
- *Large headings:* **Home**, **My TODO List**, **Hello HTML!**
- *Unordered lists:* `home.html` and `todo.html`
- *Hyperlinks:* `home.html` - **links** to `todo.html` and `hello.html`
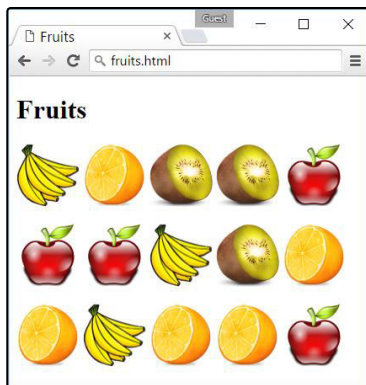- *Home hyperlinks:* `todo.html` and `hello.html`

Hints

You can use the todo.html and hello.html pages that you have created for the previous exercises.

- Create **home.html** and use **
…
** to create an unordered list with the links
- Use **…** to create a hyperlink inside a **
…
** element
- Use **href="todo.html"** to connect home.html to todo.html and **href="hello.html"** to connect it with hello.html.
- Create "**back to home**" links following the same logic

7. Fruits

Create a Web page like the screenshot:

Use the fruit images given in assets:

- **images\apple.png**
- **images\banana.png**
- **images\kiwi.png**
- **images\organge.png**

Hints

- Create a HTML page named "**fruits.html**" titled "**Fruits**".
- Use **3** paragraphs, each holding **5** images.
- Put the images in **each** paragraph (row) in a **sequence**, one after another.

8. Forms

Create a Web page like the screenshot:

- *File name:* **contact.html**
- *Title:* "**Contact Us**"
- *Large heading:* "**Contact Us**"
- *Form: holding three elements*
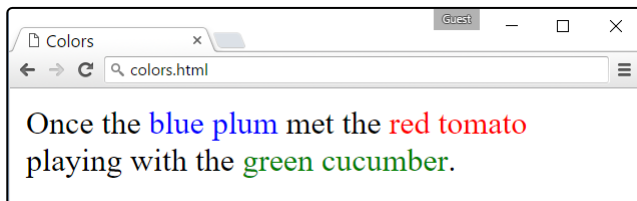- **Two** text boxes
- *Button:* with text "**Submit**"

Hints

- For the form use **<form>…</form>**
- Inside the form place two textboxes using **<input type="text" />**
- Use **<input type="submit" value="Submit" />** for the button

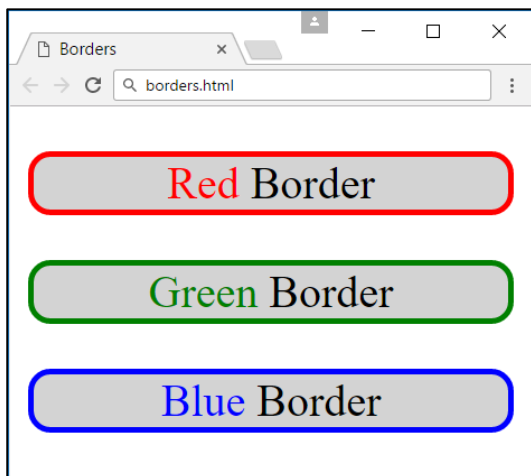# II.   CSS

9. Colors

Create a Web page like the screenshot:

Hints

- Use a paragraph **<p>…</p>** to hold the text.
- Use **text** for the colored text

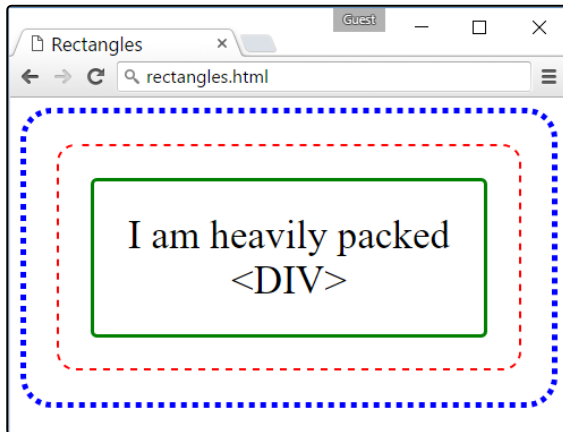# 10.   Colors

Create a Web page like the screenshot:

Hints

- Use three paragraphs **<p>…</p>** to hold the text
- Use **<p style="">…</p>** to style the paragraphs

Follow us:

- Use `<span style="…">text</span>` for the colored text

11. Rectangles

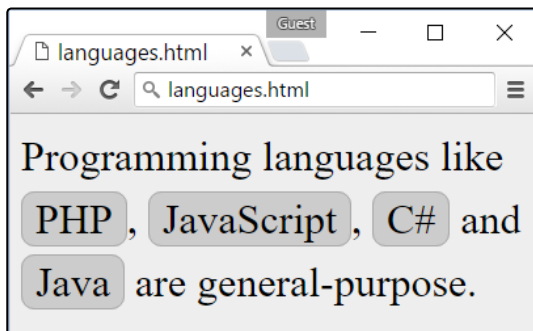Create a Web page like the screenshot:

Hints

- Use 3 nested `<div>` elements
- **Outside div**: blue dotted border + border-radius + padding
- **Middle div**: red dashed border + border-radius + padding
- **Inner div**: green solid border + border-radius + padding + text-align + font-size
- Use `<` and `>` to escape the `<` and `>` characters in the text…

12. Languages

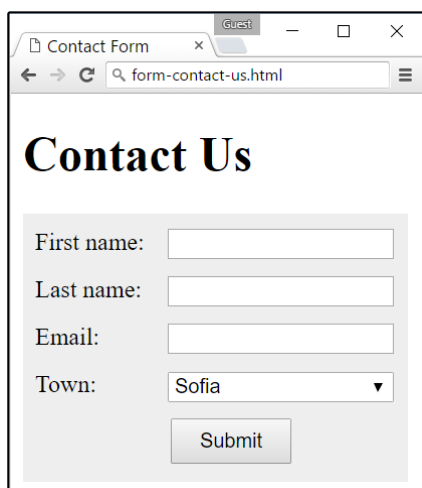Create a Web page like the screenshot:

Hints

- Create HTML file `langs.html`.
  - Put the text in paragraphs and `<span>…</span>` tags.
- Create CSS file `langs.css`.
- Link the CSS file in the HTML header:
  - `<link rel="…" href="langs.css">`
- In the "**body**" CSS selector in the CSS class define:
  - `background:#EEE; line-height:1.5em; font-size:24pt;`
- Define and use a CSS class ".`lang`" for styling the languages:
  - Specify `border:1px #AAA, border-radius, background:#CCC, padding`

13.   Contact Us Form

Create a Web page like the screenshot:

Hints

1. Create an HTML file **contact-us-form.html**, put appropriate **title**, put "**Contact Us**" **heading**.
2. Create the **HTML code** to display the form and its fields:

```html
<form>
  <span>First name:</span>
  <input type="text" name="firstname"><br>
  …
  <span>Town:</span>
  <select name="town">
    <option value="1">Sofia</option>
    …
  </select>
  <input type="submit" value="Submit">
</form>
```

3. In the **CSS file** put some styling to make the for look like at the above screenshot. First define the form background styling:

```css
form {
    background: #eee;
    display: inline-block;
}
```

4. Style the **labels** before each form field. They stay in a **…** tags. Use styling like this:

```css
form span {
    display: inline-block;
    width: 80px;
    background: #eee;
    margin: 10px 3px 3px 8px;
}
```

Follow us:

5. Now style the **<input>…</input>** and **<select>…</select>** fields:

```css
form input, form select {
  width: 150px;
  height: 20px;
  margin: 0px 5px;
  box-sizing: border-box;
}
form select {
  margin: 1px;
}
```

6. Finally, style the "**Submit**" button:

```css
form input[type='submit'] {
  display: block;
  margin: 10px 0 12px 98px;
  width: 80px; height: 30px;
}
```