

1 Info

The exam contains 14 exercises. You can collect 54 points in total.

Grading:

- 0-20: F
- 21-25: E
- 26-30: D
- 31-39: C
- 40-45: B
- 46-54: A

The scoring of multiple choice questions is as follows

- The correct solution is 2 points
- Wrong answer is -1 point

You are allowed to use all material in printed or in electronic format, and the following websites:

- [w3schools.com](https://www.w3schools.com) (except the online 'tryit' editors)
- github.com/uis-dat310-spring19/course-info
- speakerdeck.com/ljehl
- translate.google.com

It is not allowed to 'run' any of the sources and test them in a browser.

If you have comments to any of the exercises, you may write them here

Maximum marks: 0

2 **HTML coding 1**

29/04/15, 19:10	Norge - Kroatien	27 : 26		Handball EC Qualification Gr.A
02/11/14, 14:00	Netherlands - Norge	22 : 30		Handball EC Qualification Gr.A
07/06/14, 19:45	Österrike - Norge	28 : 26		World Championship Qualification

Create a HTML page with the contents shown above. (9 points)

- You need to write the entire HTML page (including <html>, <head>, <body>)
- The page title is "Match results"
- Results are arranged in a table with 5 columns
- Rows 1 and 3 have a background color #eeeeee. This has to be set using inline CSS
- The links need to open in a new window and point to the following pages
 - <http://handball.com/games/1771886.html>
 - <http://handball.com/games/1771884.html>
 - <http://handball.com/games/1624555.html>
- The winning country is written in bold
- The match results are also written in bold
- The flags can be found in an "images/land" folder (relative to the HTML file) and are called eur.gif and wm.gif

Write HTML code here

Maximum marks: 9

3 **HTML coding 2**

Name

Email

Comment

Notify me about:

☐ News

☐ Offers

☐ Events

Send

Create the above form in HTML. (7 points)

- Name (name="name") is a text field.
- Email (name="email") is an email field (use the corresponding HTML5 element!)
- Both name and email have a width of 30 characters and a maximum input length of 50 characters.
- Comment (name="comment") is a textarea with 40 characters width and 5 lines height.
- The notification options are checkboxes (names: "notify_news", "notify_offers", "notify_events").
- The submit button has the label "Send".
- Upon submission, the form is sent to feedback.php using the POST method.
- Use the <label> tag to label the input fields.
- You don't need to write the entire HTML page, only the form part.

Write HTML code here

Maximum marks: 7

4 **HTML guess 1**

Consider an image that is 1024 pixels in width and 768 pixels in height. What is the best practice for displaying a 50 pixel by 50 pixel thumbnail version of the image that, when clicked, will cause the full size image to be displayed?

Select an alternative:

- ☐ set the width and height properties of the CSS to 50px
- ☐ set the width and height attributes of the tag to 50
- ☐ use JavaScript to resize the image
- ☐ create a new thumbnail image that links to the larger image



Maximum marks: 2

5 **HTML guess 2**

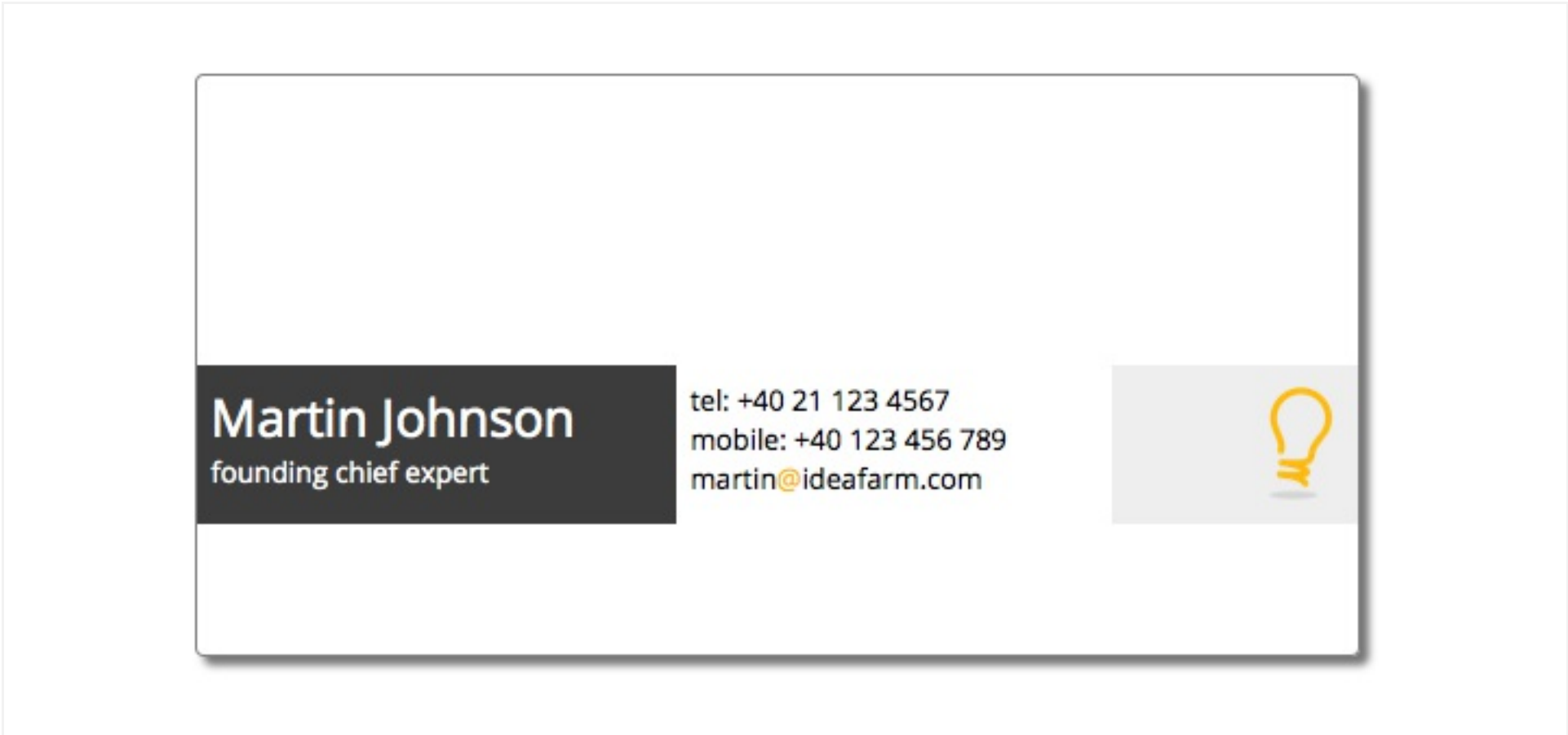
Is it possible to link to a specific location within the current page? (2 points)
Select an alternative:

- ☐ No
- ☐ Only if the page is generated from Python
- ☐ Only in framesets
- ☐ Yes



Maximum marks: 2

6 **CSS styling 1**



Write the contents of an external CSS file that would display the given HTML page as shown above. (11 points)

- The size of the "business card" is 400x200px, it has a 1px wide solid border with color #808080. It also has rounded corners with 3px radius and a shadow with color #777777.
- The left, middle, and right divs are each 50px height and are 100px from the top of the container. They are aligned next to each other and have a 5px padding on the left and on the top.
 - Hint: float "left" and "middle" to the left and "right" to the right.
- The left div has 40% width and a background of #3C3C3C. The text is written in white.
- The @ sign in the middle div has the color #FFB70B.
- The right div has 20% width and a background of #EEEEEE.
- The logo has a height of 80% and is 5px from the right border.
 - Hint: if you use absolute positioning remember to set the positioning of the parent element to non-static.
- The font is "Open Sans" everywhere, with sans-serif as a backup option. The Open Sans font can be imported from this url: <http://fonts.googleapis.com/css?family=Open+Sans>
- The font size is 0.6 em everywhere, except the name, which is 1.1em.
- Set the margin to 0px on all paragraph text.
- You are not allowed to make changes to the HTML source.

HTML source:

```
<!DOCTYPE html>
<html>
<head>
  <title>CSS styling 5</title>
  <link rel="stylesheet" href="styling5.css" type="text/css"/>
</head>
```

```
<body>
<div class="container">
  <div class="left">
    <p class="name">Martin Johnson</p>
    <p class="title">founding chief expert</p>
  </div>
  <div class="middle">
    <p>
      tel: +40 21 123 4567<br />
      mobile: +40 123 456 789<br />
      martin<span class="yellow">@</span>ideafarm.com
    </p>
  </div>
  <div class="right">
    
  </div>
</div>
</body>
</html>
```

Write CSS here

Maximum marks: 11

7 CSS guess 1

Which positioning takes the content out of the flow but leaves a "hole" where the element would have been? (2 points)

Select an alternative:

- ☐ absolute positioning
- ☐ fixed positioning
- ☐ static positioning
- ☐ relative positioning



Maximum marks: 2

8 CSS guess 2

How do you make a list not display bullet points?

Select an alternative:

- ☐ list-style-type: none
- ☐ list-style-type: no-bullet
- ☐ bulletpoints: none
- ☐ list: none



Maximum marks: 2

9 CSS guess 3

Assume this element
<div id="controls" style="position:fixed; height:100px; width:100px; bottom:0; right:20px;">...</div>
is present on a page that is 2000px tall being viewed in a browser that has a viewport of 960px by 600px. How far does the user have to scroll down the page before they see the element?

Select an alternative:

- ☐ 600 pixels
- ☒ 0 pixels
- ☐ 500 pixels
- ☐ 2000 pixels

Maximum marks: 2

10 JS Prog 1

Contrary to popular belief, Lorem Ipsum
is not simply random text.

cAPITALIZE

```
<form action="#">
<textarea rows="5" cols="40" id="mytext">
Contrary to popular belief, Lorem Ipsum is not simply random text.
</textarea>
<br />
<input type="button" value="cAPITALIZE" id="button" onclick="invcap()"/>
</form>
```

Write JavaScript code that performs « inverse capitalization »: given an input text, it should change the first character of each word to lowercase and the rest of the characters to uppercase. (5 points)

You need to write the JavaScript function that will be executed upon clicking the "cAPITALIZE" button. Replace the contents of the textarea with the inverse capitalized text. You can split the input text to words along spaces. In the above example, after clicking the button, the textarea should contain:

cONTRARY tO pOPULAR bELIEF, IOREM iPSUM iS nOT sIMPLY rANDOM tEXT.

You need to write pure JavaScript code, jQuery is not allowed.

Write JavaScript code here

Maximum marks: 5

11

JS what 1

```
var n = "";
switch(a) {
  case 8:
    n += "bra ";
  case 10:
    n = "jon";
  case 12:
    n += "ny";
}
console.log(n);
```

What does the above code output when the value of *a* is 8? (2 points)

Output: (jonny)

Maximum marks: 2

12

JS what 2

What does the following JavaScript function return?

```
function test() {
  return ( ' ' !== 0 )
}
```

Select an alternative:




- ☐ false
- ☐ there is error in this code
- ☒ true



Maximum marks: 2

13 **jQuery**

```
<div></div>
<div class="bomb"></div>
<div></div>
<div class="bomb"></div>
<div></div>
<div></div>
<div class="bomb"></div>
<div></div>
```

Write jQuery code to turn the divs blue, but beware of the bombs! (5 points)
Make the divs blue except the ones that are bombs. Attempting to make them blue will result in them going off. So you have to think of a way to turn all :not bomb divs blue (got the hint? ;).

Your task is to write the contents of a scripts.js file that is included in the head of the HTML file. You can use any jQuery function.

Write the contents of scripts.js here

Maximum marks: 4

14 **jQuery guess**

`$('#foo.bar')` would select which of the following?
Select an alternative:

- ☐ `<div id="foo">...</div>`
- ☐ `<div id="foo.bar">...</div>`
- ☒ `<div id="foo" class="bar">...</div>`
- ☐ `<div id="foo bar">...</div>`



Maximum marks: 2

15 JS wrong

```
var length = 20 ;  
width = 10 ;  
var area = length * width;  
document.write("Area of rectangle is ", Area);
```

Consider the above code in Javascript, which tries to calculate and print the area of a rectangle.

Which line contains an error?

Select an alternative:

- ☐ var length = 20 ;
- ☐ width = 10 ;
- ☐ var area = length * width;
- ☒ document.write("Area of rectangle is ", Area);
- ☐ There is no error



Maximum marks: 2