

## Written Test

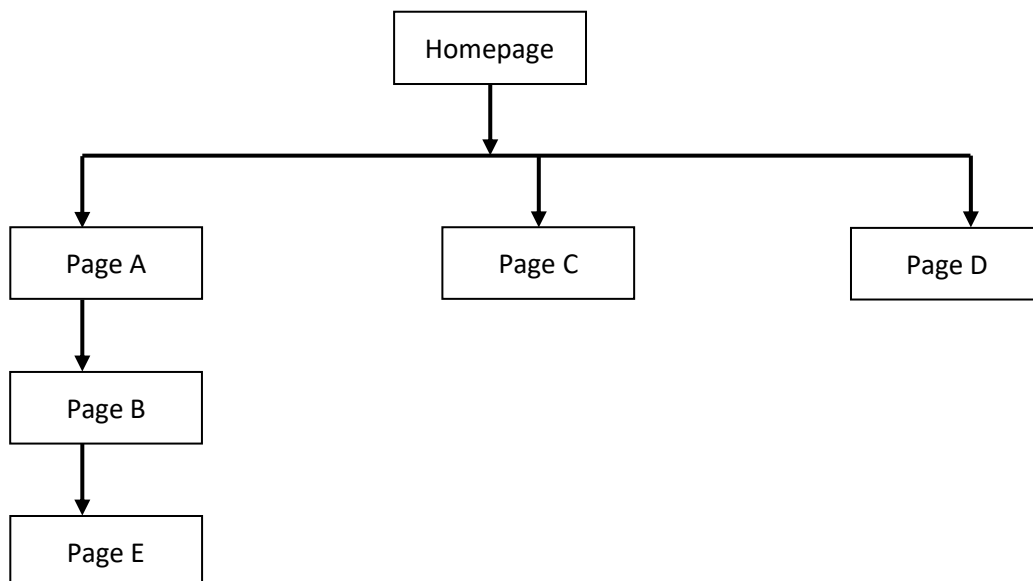
Name: \_\_\_\_\_

Points \_\_\_\_\_ / 27

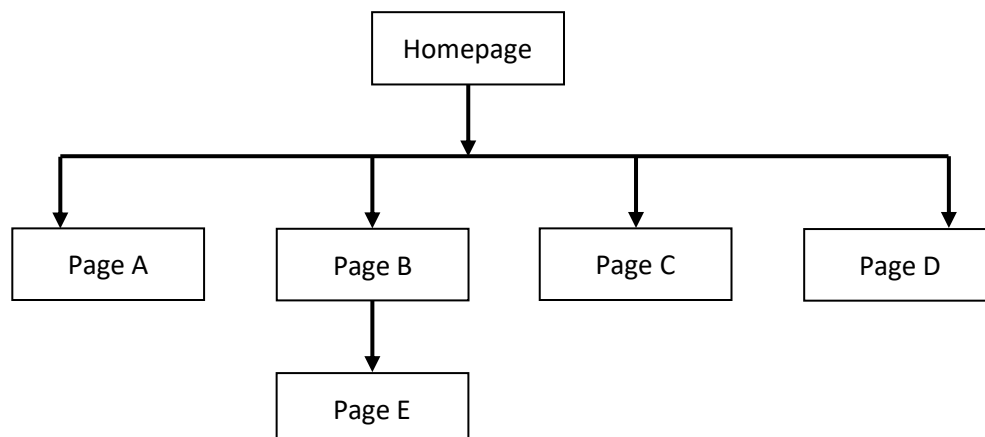
**Exercise 1****6p SA1 + 1p SA3**

Using the html files provided in the folder “Exercise 1 a, b, c”, create a website with the following logical structure:

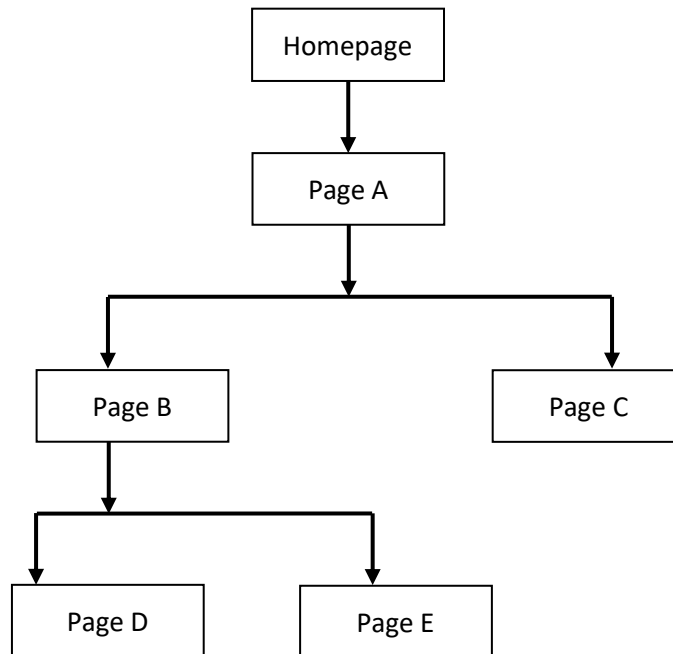
a)



b)



c)



Each website variant must be saved in an individual subfolder “Structure X” in the folder “Exercise 1 a, b, c”, where X stands for the corresponding sub-exercise (a, b, or c, respectively).

All variants must be formatted by the provided css file.

With the exception of the Homepage, all the other html files must redirect to the index.html file through the “*Back to Homepage*” paragraph.

Remark: You must edit the given list items to enable the proposed logical structures. That means that you may have to add/delete some of them in a particular variant. A direct link from the Homepage to Page E, for example, is incompatible with any of the proposed structures.

## Exercise 2

3p SA2

Correct the six html syntax mistakes in the Errors.html file from the folder “Exercise 2”. Save the file after edit (overwrite it) in the same folder.

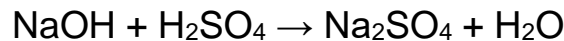
## Exercise 3

6p SA2 + 1p SA3

Given the *Exercise 3.html* file in folder “Exercise 3”.

Save the file after edit (overwrite it) as follows:

a) Apply the subscript formatting to numbers to represent the following chemical equation in the correct format like shown here:



b) Embed this very pdf file in the html file in a frame with 500 pixels height and a width as large as the viewport.

c) With the help of the preformatted text element, display the following css code as it is, without formatting the page.

```
<style>
  body {
    background: red;
  }
  h1 {
    color: blue;
    background: yellow;
  }
</style>
```

d) Group all the content given here in two distinct classes, namely “Luxembourg” and “Antarctica” based on the sentence’s meaning.

Content members of the “Luxembourg” class:

Luxembourg is a very diverse and multicultural country right in the heart of Europe.

On average, every person living in Luxembourg speak at least four languages.

Emile Metz is one of the best high schools from Luxembourg.

Content members of the “Antarctica” class:

Antarctica is a very cold continent located at the south pole of our planet.

There are many species of penguins living in Antarctica.

Except for scientific expeditions, nobody lives in Antarctica.

e) Embed the two .jpg files so that the browser will display different images depending on the viewport. Set the break-even point at 400 pixels width so that the browser will display the *smallflower.jpg* picture for smaller widths and *bigflowers.jpg* for greater widths.

f) Give an id to the chemical reaction shown previously at point a) and edit the next paragraph so that by clicking it, one is redirected to the chemical reaction.

g) write an internal css that formats the two classes “Luxembourg” and “Antarctica” as following:

for Luxembourg class:

- background color: light-yellow
- text color: dark red

for Antarctica class:

- background color: light blue
- text color: dark blue

for both classes:

- a continuous black line border with a thickness of 2 pixels

#### Exercise 4

9p SA3

Given the *exercise4.html* file in the “Exercise 4” folder,

Create an external css file that will style the followings:

The header should have:

1p

- background color light blue
- all the text written in the header must be centered

---

The heading level 1 in the header must be:

1p

- written with red with a gold background

The paragraph in the header must be:

- written with Arial

---

The navigation bar must have a RGB (51, 51, 51) color.

2p

The links in the navigation bar must have:

- No underline
- 15 pixels padding on vertical and 25 pixels padding on horizontal
- white color

- float from the right side
- must be written with Courier fonts

When hovering upon the links in the navigation bar, they should change: 1p

- background color white
- text color to black

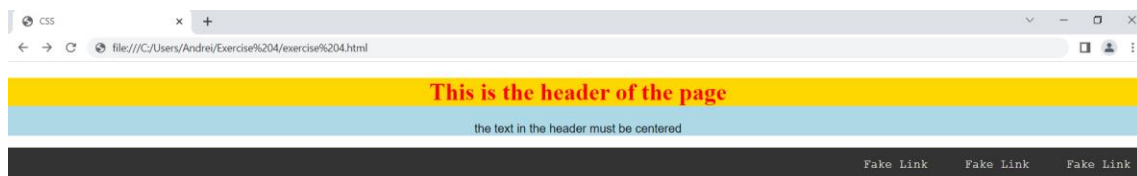
The content of the page must be responsive: 3p

- If the viewport is greater than 600 pixels, the two structures “Antarctica” and “Luxembourg” should be displayed as two columns of equal width that float next to each other.
- On the contrary, if the width of the browser is smaller than 600 pixels, the two columns must stack on top of each other.
- each structure should have a padding of 35 pixels.
- the text in the two structures must be justified.

The footer must be: 1p

- positioned on the bottom of the page
- written with centered white text on a black background.
- as wide as the viewport.

Your page should look like this when the viewport is greater than 600 pixels:



## Luxembourg

Luxembourg is a very diverse and multicultural country right in the heart of Europe.

Luxembourg, officially the Grand Duchy of Luxembourg, is a landlocked country in Western Europe. It is bordered by Belgium to the west and north, Germany to the east, and France to the south. Its capital and largest city, Luxembourg City, is one of the four official capitals of the European Union (together with Brussels, Frankfurt, and Strasbourg) and the seat of several EU agencies, notably the Court of Justice of the European Union, the highest judicial authority. Luxembourg's culture, people, and languages are highly intertwined with its French and German neighbors; while Luxembourgish is legally the only national language of the Luxembourgish people, French and German are also used in administrative and judicial matters and all three are considered administrative languages of the country. Reference [Wikipedia](#)

On average, every person living in Luxembourg speak at least four languages.

Emile Metz is one of the best high schools from Luxembourg.

## Antarctica

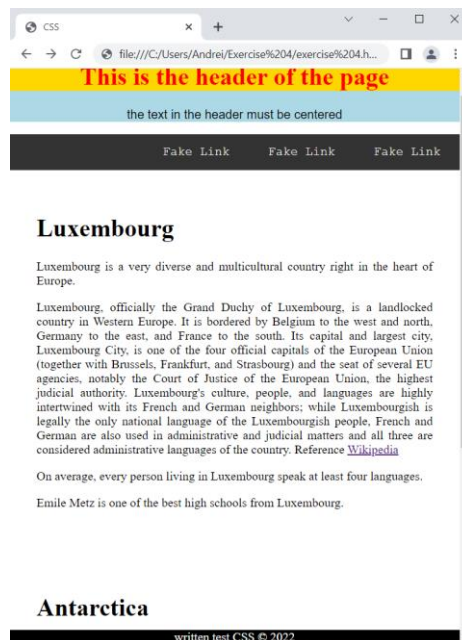
Antarctica is Earth's southernmost continent. Situated almost entirely south of the Antarctic Circle and surrounded by the Southern Ocean, it contains the geographic South Pole. Antarctica is the fifth-largest continent, being nearly twice the size of Australia, and has an area of 14 200 000 square kilometers. Most of Antarctica is covered by ice, with an average thickness of 1.9 km. Antarctica is on average the coldest, driest, and windiest of the continents, and it has the highest average elevation. It is mainly a polar desert, with annual precipitation of over 200 mm along the coast and far less inland. About 70% of the world's freshwater reserves are frozen in Antarctica, which if melted would raise global sea levels by almost 60 metres. The coastal regions can reach temperatures over 10 °C in summer. Native species of animals include mites, nematodes, penguins, seals and tardigrades. Where vegetation occurs, it is mostly in the form of lichen or moss. Reference [Wikipedia](#)

Antarctica is a very cold continent located at the south pole of our planet.

There are many species of penguins living in Antarctica.

Except for scientific expeditions, nobody lives in Antarctica.

and like this when the width of the viewport is smaller than 600 pixels:



## Exercise 5

1p SA4

When you are finished,

a) rename the parent folder as:

“EXAM 4TPIFI HTSTA Your Name and Surname”

b) create first an archive (preferably a zip archive) and turn it in Teams.

c) then, create a repository on GitHub and turn in Teams its link together with the zip archive (do not include the link in the zip file).

Success!