**JAVA**

* **DATE**

Date now=new Date();

System.out.println(now);// will print on the screen current date

* **ARRAYS**

int[] numbers= new int[100]; //declare an array of integers(one dimentionnal)

System.out.println(Arrays.toString(numbers)); // print the elements in the array

int[][] numbers=new int[4][9];//declare a two dimentionnal array

System.out.println(Arrays.deepToString(numbers));//prints elements in the array

* **CONSTANT**

final float PI=3.14F;

String name=sc.nextLine().trim(); //trim() function here is to eliminate any spaces(eventually) putting before the string

System.out.println(Math.sqrt(25));

**HTML:**

* empty elements does not have an end tag. e.g.:**<br>** is an empty element.
* **<h1>** to **<h2> ->** html heading.
* **<a href**="https:/mysql.com" **target=”\_parent** or **\_blank”>** this is a link**</a>** 🡪 the target attribute here is to specify where to open the link!! The **<a>** tag is used for a link.
* **<img src**="location\_of\_the\_image" **alt**="this is my image" **width**="100" **height**="100" **>**
* **ALT**-> ALternative Text
* **style**-> to change the color and others...
* **lang** to configure our page's language
* **href**-> contain the URL
* **style**-> **<p** style**=”color:blue;”>** this is a blue paragraph**</p>**
* **color**
* **backgroung-color**
* **text-align:** this is for alignment
* **font-family:** defines the font to be used by the HTML element
* **font-size**-> <p style=”font-size : 50px;”> this is a paragraph with 50px of size</p> instead of using ‘px’, we could use ‘%’.
* **<hr>** -> this tag is used to separate contents(by an horizontal line) this is an empty element.
* **<pre></pre>** ->print exactly the way you have written in your code
* **<sub>** use for subscript **</sub>**
* **<sup>** use for superscript(power)**</sup>**
* **<i>** *italic***</i>**
* **<b>bold</b>**
* **<strong>** important text**</strong>**
* **<em>** emphasized text**</em>**
* **<mark>** mark text**</mark>**
* **<small>** small text**</small>**
* **<del >** ~~strick~~**</del>**
* **<ins >** text inserted**</ins>**
* **<blockquote >** works like the tabular button**</blockquote>**
* **<q>** use for quotation**</q> eg:**  depending on the language, you will see the quotation with respect to the language you have set.
* **<bdo>** for bidirectional overview**</bdo>**
* **<address>** use for the address of somebody**</address>**
* **<!--**used for comments in our html code **-->**
* **<link rel**=”stylesheet” **href**=”name.css”
* **<button onclick=”**document.location=’file location’**”>**a button using javascript**</button>**
* **<h2 id**=”exe1”**>** exercise 1**</h2>………………….<p><a href=**”#exe1”**>** jump to exercise 1**</a></p>**

**->This is called bookmark.**

* **Style=”background-image:url(**‘image location’**);”**->use an image as a background into a paragraph **background-repeat: no-repeat; background-size: cover; background-size: 100% 100%;**
* Add a favicon: **<link rel=”**icon**” type=”” href=”**file/image location**”>**
* **<td>**table data**</td>** insert a cell in a table
* **<tr>**table row**</tr>** insert a row in a tabule
* **<th>**table header**</th>** use for the head of a table
* **<ul>** unordered list

**<li>** item **</li>**

**<li>** item **</li>**

**</ul>**

* **<ol>** ordered list

**<li>** item **</li>**

**<li>** item **</li>**

**</ol>**

* **SEO(S**earch **E**ngine **O**ptimization**)**
* **<meta charset=”UTF-8”>** Define the character set used
* **<meta name=”keyword” content=”**HTML, CSS, JavaScript**”>** Define keyword for search engine
* **<meta name=”description” content=”**free web tutorials**”>** Define a description of your web page
* **<meta name=”author” content=”**Aubin De\_threat**”>** Define the author of the page
* **<meta** http-equiv=”refresh” **content=”**30**”**> refresh document every 30 seconds
* **<meta name=”viewport” content=”width=device-width, initial-scale=1.0”>** Setting the viewport to make your webside look good in all devices
* **header, nav, section, article, aside, footer, figcaption, figure, details, main, mark, summary, time**
* **URL: U**niform **R**esource **L**ocators

**HTML FORM:**

* **<input type=”text”** id=”” name=”” value=””**/>**
* **<input type=”checkbox”/>**
* **<input type=”radio”/>**
* **<input type=”button”/>**
* **<label> for=”id-name”> label-name</label>**

**PHP:**

**PHP: Hypertext Preprocessor is** a server scripting language.

**<?php**

$name=”Aubin”;

$txt=”blue”;

Echo “Hello, I am ”.$name;

Echo “this is a “.$txt.”color”;

**?>**

**Php** is executed on the server and the result is returned to the browser as plaint text. **Php** files can contain  **text, HTML, CSS, JS and PHP** code.

* **global, static** variables: (global)this is to make a variable valid when you use it in/outsite of a function. (static)this is to keep the last content of a variable when a function finish runs, otherwise, the content is automatically deleted when the function runs. Here is an example:

**<?php**

$name=”Aubin”;

$x=2; $y=3;

**function myText(){**

$GLOBALS[‘y’]= $GLOBALS[‘x’]+$GLOBALS[‘y’]

**global** $name;

**echo** $name;

**}**;

Echo “Hello, I am ”.$name;

Echo $GLOBALS[‘y’];

**?>**

* **ARRAYS:** $GLOBALS[“y”]= $GLOBALS[“x”]+$GLOBALS[“y”] // this how to declare an array in php.
* Get the data type and the value of a variable:
  + **$name=”my name”;**
  + **var\_dump($name);**
* **OOP:**
  + **A class is** a template for objects.
  + **An object is** an instance of a class.