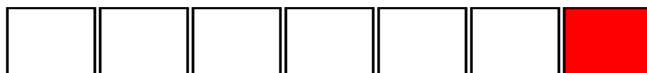| First name: |  |
| Last name: | **ENSIA** The National School of Artificial Intelligence |
| Group: | المدرسة الوطنية العليا للذكاء الاصطناعي |

# Web Development Exam

## Exercise 1:

1) Given the following HTML and CSS codes, fill in the gaps (a, b, c, d) according to the given result.

| <div class="Squares"> | ………………… |
|---|---|
|           <div></div> | {  background-color: red;} |
|           <div></div> | a)  **.Squares :first-child OR .Squares :nth-child(1) 0.25** |
|           <div></div> | b)  **.Squares :last-child OR .Squares :nth-child(7)0.25** |
|           <div></div> | c)  **.Squares :nth-child(2n)0.25** |
|           <div></div> | d)  **.Squares :nth-child(2n + 1)0.25** |
|           <div></div> |  |
|           <div></div> |  |
| </div> |  |

a:……………………

b:……………………

c:……………………

d:……………………

2) Style the following HTML code with a font size of 30 pixels and the w letter with 50 pixels.

<h1>Web development Exam</h1>

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| | |
|---|---|
| **h1** **0.25**<br>**{**<br>  **font-size: 30px;0.25**<br>**}** | **h1::first-letter** **0.5**<br>**{**<br>  **font-size: 50px;0.25**<br>**}** |

3) Fill in the gaps.

There are five different position values:

**fixed**:**0.25** positioned relative to the viewport, which means it always stays in the same place even if the page is scrolled.
**relative**.:**0.25** the top, right, bottom, and left properties of a relatively positioned element will cause it to be adjusted away from its normal position.
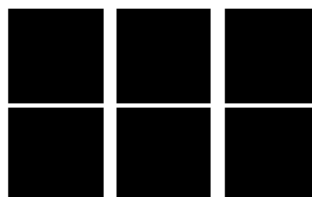**absolute**:**0.25** is positioned relative to the nearest positioned ancestor.
**sticky**:**0.25** is positioned based on the user's scroll position.
**static**:**0.25** are not affected by the top, bottom, left, and right properties.

4) Given the following HTML codes, complete the CSS code according to the given result.

```
<div class="Grid">          .Grid {
      <div></div>             display: grid;0.5
      <div></div>             grid-template-columns: 1fr 1fr 1fr;0.5
      <div></div>             grid-template-rows: 1fr 1fr;0.5}
      <div></div>
      <div></div>           .Grid div { width: 50px;
      <div></div>             height: 50px;
    </div>                    border: 2px solid black;
                              background-color: black;}
```

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## Exercise 2:

Display a list of products stored in the "product" table using the following HTML template. It is a list of products that have a price between two values that the user will enter using the form below.

Use the following SQL query to display:

SELECT Product_Name, Product_Description, Price FROM `product` WHERE `Price` BETWEEN value_1 AND value_2;

| Name | Type |
|------|------|
| Product_ID 🔑 | int(11) |
| Product_Name | varchar(100) |
| Product_Description | varchar(500) |
| Price | int(11) |

<h3>Product name</h3>

<p> Product description </p>

<h2> Price </h2>

Min price: [_____]

Max price: [_____]

[ Submit ]

```html
<form action=".........................." method="....................">

        <label for="Min_price">Min price:</label>
        <input type="text" name="Min_price" id="Min_price"> <br> <br>
        <label for="Max_price">Max price:</label>
        <input type="text" name="Max_price" id="Max_price"> <br> <br>
        <input type="submit" name="submit" value="Submit">
</form>
```

//—-------------MySQLi.php—-------------------------

```php
$My_Connection = new mysqli($Server_Name, $User, $Password, $DB); 0.25* 4 = 1
if (mysqli_connect_errno()) {
   echo 'Error: Could not connect to database. Please try again later.';
   exit;
} else {
   if (isset($_POST['submit'])) {
      if (empty($_POST['Min_price']) || empty($_POST['Max_price'])) { 0.25 +0.25
// OR !isset($_POST['Min_price']) || !isset($_POST['Max_price'])
         echo 'Please fill in all fields.';
         exit;
      } else {
         $Min_price =$_POST['Min_price']; 0.25
         $Max_price = $_POST['Max_price']; 0.25
         $query = "SELECT Product_Name, Product_Description, Price FROM
`product` WHERE `Price` BETWEEN ? AND ?";  0.25 +0.25
         $stmt = $My_Connection->prepare($query); 0.25
         $stmt->bind_param('ii', $Min_price, $Max_price); 0.25
         $stmt->execute(); 0.25
         $stmt->bind_result($aaa, $bbb, $ccc); 0.25
         while ($stmt->fetch()) {0.25
           echo "<h3>" . $aaa . "</h3>"; 0.25
            echo "<p>" . $bbb . "</p>"; 0.25
            echo "<h2> " . $ccc . "</h2>"; 0.25
         }      }        }        }
```

## Exercise 3:

Given the following HTML and CSS code write a JavaScript code that create the following calculator. This calculator should be created inside the "Container" div. When we click on the button it should display the multiplication of the two numbers in a H2 tag.

| | |
|---|---|
| Enter First Number<br><br>100<br><br>Enter Second Number<br><br>200<br><br>**Click Me**<br><br>**20000** | **HTML:**<br><br>**<div class="Container"></div>**<br><br>**CSS:**<br><br>**button {}**<br><br>**.Container {}**<br><br>**input {}** |

let Container = **document.querySelector(".Container");0.25**

// Create the first label and add it to the container

let Label_1 = **document.createElement("label");0.25**

**Label_1.innerHTML = "Enter First Number";0.25**

**Container.appendChild(Label_1);0.25**

// Create the first input and add it to the container

let Input_1 = **document.createElement("input");0.25**

```javascript
Container.appendChild(Input_1); 0.25

// Create the second label and add it to the container

let Label_2 = document.createElement("label"); 0.25

Label_2.innerHTML = "Enter Second Number"; 0.25

Container.appendChild(Label_2); 0.25

// Create the second input and add it to the container

let Input_2 =  document.createElement("input"); 0.25

Container.appendChild(Input_2); 0.25

// Create the button and add it to the container

let Button =document.createElement("button"); 0.25

Button.innerHTML = "Click Me"; 0.25

Container.appendChild(Button); 0.25

// Create the event that compute result and add it to the container

Button.addEventListener("click", () => { 0.25

  let Multiplcation = Input_1.value * Input_2.value; 0.5

  let Result_H2 =document.createElement("h2");  0.25

 Result_H2.innerHTML = Multiplcation; 0.25

  Container.appendChild(Result_H2); 0.25

});
```

## Exercise 4:

Complete the following so that after checking the user name and password, the user is redirected to the page Cookie.php. In that page, the user can choose a language and save it in a cookie. The page should display a message in the chosen language, and a link to logout page. The logout page should destroy the session and the cookie.

```php
// ——————————Session.php——————————————
<?php
session_start(); 0.75
if (isset($_POST['userid']) && isset($_POST['password'])) {
    // if the user has just tried to log in
    $userid = $_POST['userid'];
    $password = $_POST['password'];
    if ($userid == 'admin' && $password == '123') {
        // Save user id in a session
$_SESSION['valid_user'] = $userid; 0.25
    header("Location: Cookie.php");
    exit();     } } ?>
    <form action="Session.php" method="post">
        <label for="userid">UserID:</label>
        <input type="text" name="userid" id="userid" size="30" />
        <label for="password">Password:</label>
        <input type="password" name="password" id="password" size="30" />
        <button type="submit" name="login">Login</button>
    </form>
///——————————Cookie.php—————————————
    <?php
session_start(); 0.75
    if (isset($_SESSION['valid_user'])) { 0.25
        // Display the following form if the user is already logged in.
        echo '  <form action="Cookie.php" method="post">';
        echo '  <label for="Laguage">Laguage:</label>';
        echo '  <input type="text" name="Laguage" id="Laguage" size="30" />';
        echo '  <button type="submit" name="Save">Save</button>';
        echo '  </form>';
    }
    if (isset($_POST['Laguage'])) {
```

```php
setcookie('Laguage', $_POST['Laguage'], time() + 60 * 60 * 24 * 7); 0.75
    if (isset($_COOKIE['Laguage'])) { 0.5
        switch ($_COOKIE['Laguage']) { 0.5
            case 'Arabic':
                echo 'مرحبا';
                break;
            case 'English':
                echo 'Hello';
                break;
            case 'French':
                echo 'Bonjour';
                break;
            default:
                echo 'مرحبا';
                break;
        }
    }
    echo '<br><a href="Logout.php">Logout</a>';
}

?>
///——------------------Logout.php—-------------------------
<?php
setcookie('Laguage', $_POST['Laguage'], time() - 60 * 60 * 24 * 7); 0.75
$_SESSION = array(); OR session_destroy(); OR
unset($_SESSION['valid_user']); 0.5
header("Location: Session.php");
exit();
```