

**Лабораторна робота №3**  
**Тема: Обробка подій JavaScript.**

**Хід роботи:**

**Завдання на лабораторну роботу:**

**1. Завдання на лабораторну роботу:**

**Завдання 1.** Користувач вводить своє ім'я в текстове поле. При натисканні на кнопку відображається привітання:



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Розроб.		Бабушко А.С.			Звіт з лабораторної роботи			Літ.	Арк.	Аркушів	
Перевір.		Фуріхата Д.В.								1	34
Керівник								ФІКТ Гр. ВТ-21-1[1]			
Н. контр.											
Зав. каф.											

## Виконання:

### • HTML:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 1</title>
  <link rel="stylesheet" href="../styles/css/task_1.css">5
  <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <table class="button_section__table">
        <tr>
          <td>
            <label for="textGreeting" class="table__label_greeting">Enter your
name:</label>
          </td>
          <td>
            <input type="text" name="textGreeting" id="textGreeting"
class="table__text_greeting" placeholder="Your name">
          </td>
        </tr>
        <tr>
          <td colspan="2">
            <input type="button" value="Greeting" id="buttonGreeting"
class="table__button_greeting">
          </td>
        </tr>
      </table>
    </section>
  </div>

  <script src="../js/task_1.js"></script>
</div>
</body>
</html>
```

### • SASS:

```
*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 30vw

.button_section__table
border-collapse: collapse

.table__text_greeting
margin-left: 15px
height: 28px

.table__button_greeting
height: 28px
```

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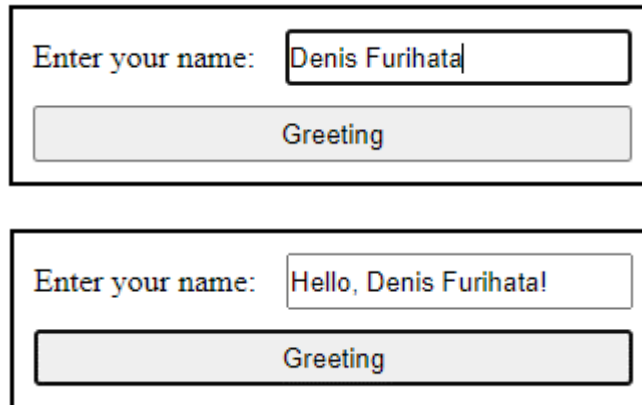
```
width: 100%
margin: 10px 0 0 0
```

- **JS:**

```
'use strict';

const textGreeting = document.querySelector('#textGreeting');
const buttonGreeting = document.querySelector('#buttonGreeting');
buttonGreeting.addEventListener('click', () => {
    textGreeting.value = 'Hello, ' + textGreeting.value + '!';
})
```

**Результат програми:**



**Завдання 2.** Користувач заповнює два текстові поля. При натисканні на кнопку, значення в цих полях міняються місцями:



**Виконання:**

- **HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Task 2</title>
    <link rel="stylesheet" href="../styles/css/task_2.css">
    <link rel="icon" href="../../img/icons/raccoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
    <div class="container">
        <section class="button_section">
            <table class="button_section__table">
                <tr>
                    <td>
                        <label for="textFirstText" class="table__label_first_text">Enter
first text:</label>
                    </td>
                    <td>
                        <input type="text" name="textFirstText" id="textFirstText"
class="table__text_first_text" placeholder="Some text">
                    </td>
                </tr>
            </table>
        </section>
    </div>
</div>
```

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```

        <tr>
          <td>
            <label for="textSecondText" class="table__label_second_text">Enter
second text:</label>
          </td>
          <td>
            <input type="text" name="textSecondText" id="textSecondText"
class="table__second_text" placeholder="Some text">
          </td>
        </tr>
        <tr>
          <td colspan="2">
            <input type="button" value="Swap values in two text inputs"
id="buttonSwap" class="table__button_swap">
          </td>
        </tr>
      </table>
    </section>
  </div>

  <script src="./js/task_2.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 30vw

.button_section_table
border-collapse: collapse

.table__text_first_text, .table__second_text
margin: 5px 0 5px 10px
height: 28px

.table__button_swap
height: 28px
width: 100%
margin: 10px 0 0 0

```

- **JS:**

```

'use strict';

let textFirstText = document.querySelector('#textFirstText');
let textSecondText = document.querySelector('#textSecondText');
const buttonSwap = document.querySelector('#buttonSwap');
buttonSwap.addEventListener('click', () => {
  [textFirstText.value, textSecondText.value] = [textSecondText.value,
textFirstText.value]
});

```

**Результат програми:**

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Enter first text:

Enter second text:

Swap values in two text inputs

Enter first text:

Enter second text:

Swap values in two text inputs

**Завдання 3.** Дано сторони прямокутника (вводяться користувачем). При натисканні кнопки обчислити периметр та площу прямокутника:

Сторона А

Сторона В

Периметр прямокутника  
14 см

Площа прямокутника  
12 см<sup>2</sup>

**Виконання:**

- HTML:**

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 3</title>
  <link rel="stylesheet" href="./styles/css/task_3.css">
  <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <table class="button_section__table">
        <tr>
          <td>
            <label for="textSideA" class="table__label_side_a">Enter side
A:</label>
          </td>
          <td>
            <input type="text" name="textSideA" id="textSideA"
class="table__text_side_a" placeholder="Rectangle side A">
          </td>
        </tr>
        <tr>
          <td>
            <label for="textSideB" class="table__label_side_b">Enter side
B:</label>
          </td>
          <td>
            <input type="text" name="textSideB" id="textSideB"
class="table__text_side_b" placeholder="Rectangle side B">
          </td>
        </tr>
      </table>
    </section>
  </div>
</div>

```

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```

        </td>
        <td>
            <input type="text" name="textSideB" id="textSideB"
class="table__text_side_b" placeholder="Rectangle side B">
        </td>
    </tr>
    <tr>
        <td colspan="2">
            <input type="button" value="Get perimeter and area of rectangle"
id="buttonPerimeterArea" class="table__button_perimeter_area">
        </td>
    </tr>
</table>
<div class="button_section__output_perimeter_area"></div>
</section>
</div>

<script src="./js/task_3.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 30vw

.button_section__table
border-collapse: collapse

.table__text_side_a, .table__text_side_b
margin: 5px 0 5px 10px
height: 28px

.table__button_perimeter_area
height: 28px
width: 100%
margin: 10px 0 0 0

.output_perimeter_area_section
border: 1px solid black
margin: 10px 0
text-align: center

```

- **JS:**

```

'use strict';

const buttonPerimeterArea = document.querySelector('#buttonPerimeterArea');
buttonPerimeterArea.addEventListener('click', () => {
    const textSideA = parseInt(document.querySelector('#textSideA').value);
    const textSideB = parseInt(document.querySelector('#textSideB').value);
    if (isNaN(textSideA) || isNaN(textSideB)) {
        document.querySelector('.button_section__output_perimeter_area').innerHTML =
            `<section class="output_perimeter_area_section">
                <p>Values were entered <strong>incorrectly</strong>!</p>
            </section>`;
    }
});

```

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```

    } else {
        const rectanglePerimeter = Math.round((textSideA * 2 + textSideB * 2) * 100) / 100;
        const rectangleArea = textSideA * textSideB;
        document.querySelector('.button_section_output_perimeter_area').innerHTML =
            `<section class="output_perimeter_area_section">
                <p>Perimeter of rectangle: <strong>${rectanglePerimeter}cm</strong></p>
                <p>Area of rectangle: <strong>${rectangleArea}cm<sup>2</sup></strong></p>
            </section>`;
    }
});

```

**Результат програми:**

Enter side A:

Enter side B:

Get perimeter and area of rectangle

Perimeter of rectangle: 18cm  
 Area of rectangle: 20cm<sup>2</sup>

**Завдання 4.** Дано час руху в секундах та відстань в метрах (вводяться користувачем), що подолав велосипедист. При натисканні на кнопку обчислюється його швидкість руху в км/год:

Час руху (с)

Відстань (м)

OK

Швидкість руху  
 10.000 км/год

**Виконання:**

- HTML:**

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Task 4</title>
    <link rel="stylesheet" href="./styles/css/task_4.css">
    <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
    <div class="container">
        <section class="button_section">
            <table class="button_section__table">
                <tr>
                    <td>
                        <label for="textTimeOfMovement"
class="table__label_time_of_movement">Enter time of movement(sec.):</label>
                    </td>
                    <td>
                        <input type="text" name="textTimeOfMovement"
id="textTimeOfMovement" class="table__text_time_of_movement" placeholder="Time of
movement">
                    </td>
                </tr>
            </table>
        </section>
    </div>
</div>

```

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```

        </td>
      </tr>
      <tr>
        <td>
          <label for="textDistance" class="table__label_distance">Enter
distance (m.) :</label>
        </td>
        <td>
          <input type="text" name="textDistance" id="textDistance"
class="table__text_distance" placeholder="Distance">
        </td>
      </tr>
      <tr>
        <td colspan="2">
          <input type="button" value="Get speed of movement"
id="buttonSpeedMovement" class="table__button_speed_movement">
        </td>
      </tr>
    </table>
    <div class="button_section__output_speed_movement"></div>
  </section>
</div>

<script src="./js/task_4.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 30vw

.button_section_table
border-collapse: collapse

.table__text_time_of_movement, .table__text_distance
margin: 5px 0 5px 10px
height: 28px

.table__button_speed_movement
height: 28px
width: 100%
margin: 10px 0 0 0

.output_speed_movement_section
border: 1px solid black
margin: 10px 0
text-align: center

```

- **JS:**

```

'use strict';

document.querySelector('#buttonSpeedMovement').addEventListener('click', () => {
  const timeOfMovement = parseFloat(document.querySelector('#textTimeOfMovement').value);
  const distance = parseFloat(document.querySelector('#textDistance').value);

```

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```

if (isNaN(timeOfMovement) || isNaN(distance)) {
    document.querySelector('.button_section__output_speed_movement').innerHTML =
        '<section class="button_section__output_speed_movement">
            <p>Incorrect type of entered values!</p>
        </section>';
} else {
    console.log(timeOfMovement, distance);
    const speedOfMovement = Math.round((distance / timeOfMovement) * 100) / 100;
    document.querySelector('.button_section__output_speed_movement').innerHTML =
        '<section class="output_speed_movement_section">
            <p>Speed of movement: <strong>${speedOfMovement}km/hour</strong></p>
        </section>';
}
});

```

**Результат програми:**

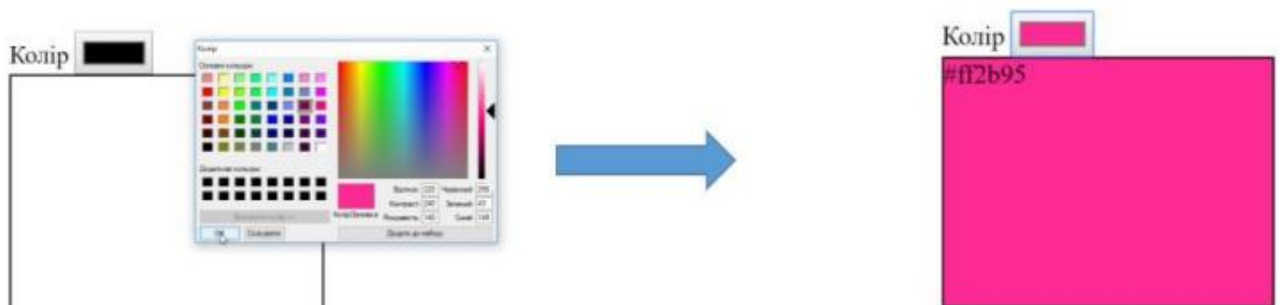
Enter time of movement(sec.):

Enter distance(m.):

Get speed of movement

Speed of movement: **2km/hour**

**Завдання 5.** Дано блок і поле для вибору кольору. При здійсненні вибору кольору в блоці з'являється 16-ве значення кольору, а сам блок заливається даним кольором:



**Виконання:**

- **HTML:**

```

<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <title>Task 5</title>
    <link rel="stylesheet" href="../styles/css/task_5.css">
    <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
    <div class="container">
        <section class="button_section">
            <table class="button_section__table">
                <tr>
                    <td>
                        <label for="colorChooseColor"
class="table__label_choose_color">Choose some color:</label>
                    </td>

```

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```

        <td>
            <input type="color" name="colorChooseColor" id="colorChooseColor"
class="table__color_choose_color">
        </td>
    </tr>
</table>
<div class="button_section__output_color"></div>
</section>
</div>

<script src="./js/task_5.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 30vw

.button_section__table
border-collapse: collapse

.table__label_choose_color, .table__color_choose_color
margin: 5px 0 5px 10px

.button_section__output_color
border: 1px solid black
margin: 10px 0
text-align: center
width: 300px
height: 200px

```

- **JS:**

```

'use strict';

const colorChooseColor = document.querySelector('#colorChooseColor');

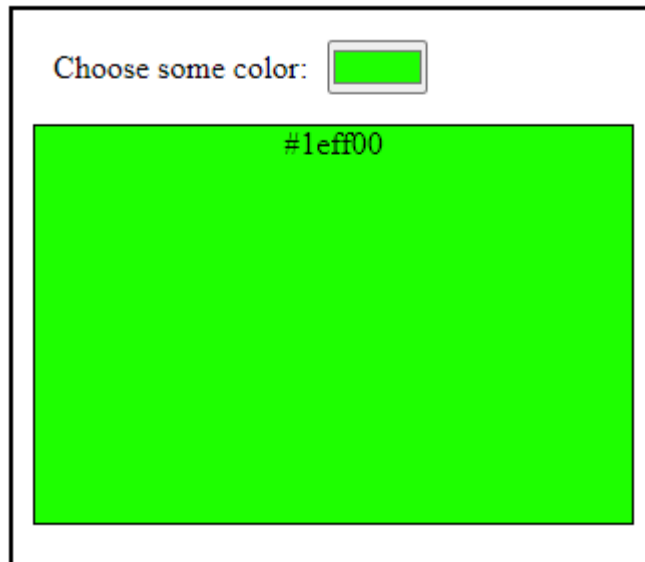
colorChooseColor.addEventListener('input', () => {
    const color = colorChooseColor.value;
    const outputColor = document.querySelector('.button_section__output_color');

    outputColor.innerHTML = `<p class="output_color__p">${color}</p>`;
    outputColor.style.backgroundColor = color;
});

```

**Результат програми:**

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**Завдання 6.** Дано випадний список міст та відповідні зображення міст.  
Посилання на зображення. При виборі міста зі списку на сторінці з'являється його зображення:



### Виконання:

- **HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 6</title>
  <link rel="stylesheet" href="../styles/css/task_6.css">
  <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <table class="button_section__table">
        <tr>
          <td>
            <label for="selectChooseImg" class="table__label_choose_img">Choose
some image to see it:</label>
          </td>
          <td>
            <select name="selectChooseImg" id="selectChooseImg"
class="table__select_choose_img">
              <option value="default">--> Select image <--</option>
              <option value="new_york">New York</option>
              <option value="los_angeles">Los Angeles</option>
              <option value="chicago">Chicago</option>
            </select>
          </td>
        </tr>
      </table>
    </section>
  </div>
</div>
```

```

        </td>
      </tr>
    </table>
  <div class="button_section__output_img"></div>
</section>
</div>

<script src="./js/task_6.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 30vw

.button_section__table
border-collapse: collapse

.table__label_choose_img, .table__select_choose_img
margin: 5px 0 5px 10px
height: 28px

.button_section__output_img
margin: 10px 0
width: 100%
height: 300px

```

- **JS:**

```

'use strict';

const selectChooseImg = document.querySelector('#selectChooseImg');

selectChooseImg.addEventListener('input', () => {
  const img = selectChooseImg.value;
  const outputImg = document.querySelector('.button_section__output_img');

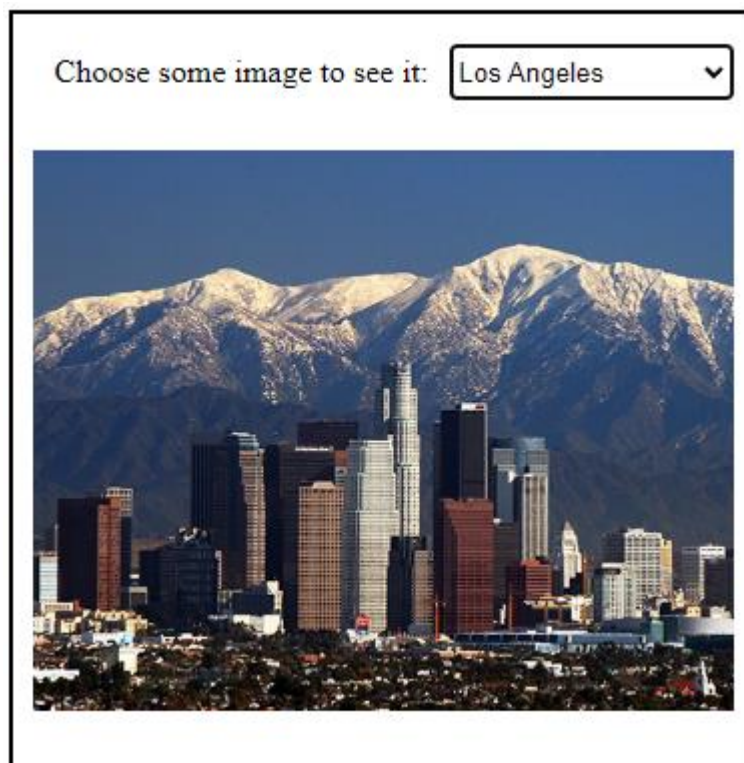
  switch (img) {
    case 'los_angeles': {
      outputImg.style.background = "url('../.../img/los-angeles.jpg') no-repeat
center";
      outputImg.style.backgroundSize = 'contain';
      break;
    }
    case 'new_york': {
      outputImg.style.background = "url('../.../img/new-york.jpg') no-repeat
center";
      outputImg.style.backgroundSize = 'contain';
      break;
    }
    case 'chicago': {
      outputImg.style.background = "url('../.../img/chicago.jpg') no-repeat
center";
      outputImg.style.backgroundSize = 'contain';
      break;
    }
  }
});

```

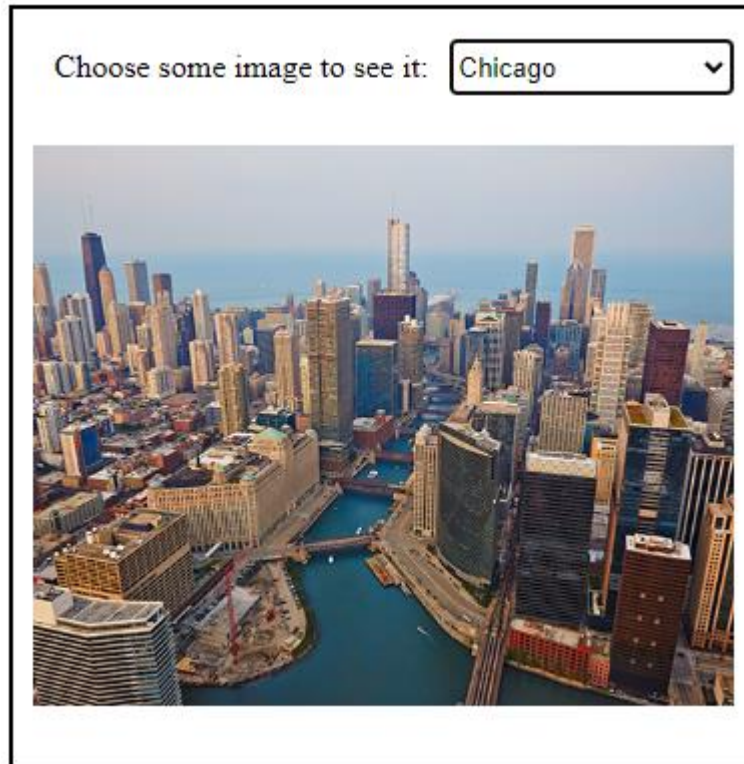
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```
}  
}  
});
```

**Результат програми:**



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**Завдання 7.** Нам потрібно придбати житло (квартиру або будинок) при таких умовах:

- 1) Ціна не перевищує 600 тис. грн.
- 2) Новобуд (з 2-го по 6-тий поверх) або приватний будинок

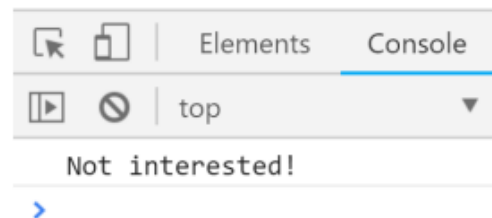
За даною пропозицією визначте, чи можемо ми придбати дану нерухомість

Приклад роботи скрипта:

Тип житла:
 

☒ Новобуд (багатоквартирний)
 ☐ Вторинне житло (багатоквартирний)
 ☐ Приватний будинок

Ціна: 
 Поверх:



**Виконання:**

- **HTML:**

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 7</title>
  <link rel="stylesheet" href="../styles/css/task_7.css">
  <link rel="icon" href="../../img/icons/raccoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <fieldset class="button_section_dwelling_fieldset">
        <legend>Type of dwelling:</legend>
        <table class="button_section_table">
          <tr>
            <td>

```

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```

        <input type="radio" name="radioBuildingType"
id="radioNewBuilding"
        class="table__number_new_building" value="New building">
    </td>
    <td>
        <label for="radioNewBuilding"
class="table__label_new_building">New
        building (multi-apartment) </label>
    </td>
</tr>
<tr>
    <td>
        <input type="radio" name="radioBuildingType"
id="radioSecondaryHousing"
        class="table__number_secondary_housing" value="Secondary
housing">
    </td>
    <td>
        <label for="radioSecondaryHousing"
class="table__label_secondary_housing">Secondary
        housing (multi-apartment) </label>
    </td>
</tr>
<tr>
    <td>
        <input type="radio" name="radioBuildingType"
id="radioPrivateHouse"
        class="table__number_private_house" value="Private
house">
    </td>
    <td>
        <label for="radioPrivateHouse"
class="table__label_private_house">Private house</label>
    </td>
</tr>
</table>
</fieldset>
<fieldset class="button_section_actions_fieldset">
    <table class="button_section_table">
        <tr class="table_price_tr">
            <td>
                <label for="numberPrice"
class="table__label_price">Price:</label>
            </td>
            <td>
                <input type="number" name="numberPrice" id="numberPrice"
class="table__number_price">
            </td>
        </tr>
        <tr class="table_floor_tr">
            <td>
                <label for="numberFloor"
class="table__label_floor">Floor:</label>
            </td>
            <td>
                <input type="number" name="numberFloor" id="numberFloor"
class="table__number_floor">
            </td>
        </tr>
        <tr class="table_check_suggestions_tr">
            <td colspan="2">
                <input type="button" value="Check suggestions"
id="buttonCheckSuggestions"
                class="table__button_check_suggestions">
            </td>
        </tr>
    </table>
</fieldset>
<div class="button_section_output_status"></div>
</section>

```

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```

</div>

<script src="./js/task_7.js"></script>
</div>
</body>
</html>

```

## • SASS:

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 35vw

.button_section__dwelling_fieldset, .button_section__actions_fieldset
border: 2px solid darkgrey
padding: 5px
margin: 10px 0
width: 100%

.button_section__table
border-collapse: collapse
margin: 5px
display: flex
align-items: center
flex-direction: column

.table__label_new_building, .table__label_secondary_housing, .table__label_private_house
margin: 0 0 0 10px
height: 28px

.table__button_check_suggestions
width: 100%
height: 28px

.table__number_price, .table__number_floor, .table__number_new_building,
.table__number_secondary_housing, .table__number_private_house
margin: 5px 0 5px 10px

.button_section__output_status
margin: 10px 0
width: 100%
height: 50px

```

## • JS:

```

'use strict';
const radioBuildingType = document.querySelectorAll('input[name="radioBuildingType"]');

const hiddenFloor = () => {
  document.querySelector('.table__floor_tr').setAttribute('hidden', '');
};

const unHiddenFloor = () => {
  document.querySelector('.table__floor_tr').removeAttribute('hidden');
};

radioBuildingType[0].addEventListener('change', unHiddenFloor)
radioBuildingType[1].addEventListener('change', unHiddenFloor)

```

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```

radioBuildingType[2].addEventListener('change', hiddenFloor)

const buttonCheckSuggestions = document.querySelector('#buttonCheckSuggestions');

buttonCheckSuggestions.addEventListener('click', () => {
  const numberPrice = document.querySelector('#numberPrice').value;
  const numberFloor = document.querySelector('#numberFloor').value;
  const outputField = document.querySelector('.button_section__output_status');

  if (!radioBuildingType[0].checked && !radioBuildingType[1].checked &&
!radioBuildingType[2].checked) {
    outputField.innerHTML = `<p>Choose type of dwelling!</p>`;
    console.log('Choose type of dwelling!');
  } else {
    if (numberPrice > 600000 || numberPrice < 0) {
      outputField.innerHTML = `<p><strong>Not interested!</strong></p>`;
      console.log('Not interested!');
    } else {
      if (radioBuildingType[0].checked || radioBuildingType[1].checked) {
        if (numberFloor < 1 || numberFloor > 47) {
          outputField.innerHTML = `<p><strong>Not interested!</strong></p>`;
          console.log('Not interested!');
        } else {
          if (numberFloor >= 2 && numberFloor <= 6) {
            outputField.innerHTML =
              `<p><strong>Interested!</strong></p>`;
            console.log('Interested!');
          } else {
            outputField.innerHTML =
              `<p><strong>Not interested!</strong></p>`;
            console.log('Not interested!');
          }
        }
      } else {
        outputField.innerHTML =
          `<p><strong>Interested!</strong></p>`;
        console.log('Interested!');
      }
    }
  }
});

```

**Результат програми:**

Type of dwelling:

☒ New building(multi-apartment)
☐ Secondary housing(multi-apartment)
☐ Private house

Price: 
Floor: 

Check suggestions

**Interested!**

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Type of dwelling:

- ☒ New building(multi-apartment)  
☐ Secondary housing(multi-apartment)  
☐ Private house

Price: 600000

Floor: 1

Check suggestions

**Not interested!**

Type of dwelling:

- ☐ New building(multi-apartment)  
☒ Secondary housing(multi-apartment)  
☐ Private house

Price: 700000

Floor: 6

Check suggestions

**Not interested!**

Type of dwelling:

- ☐ New building(multi-apartment)  
☒ Secondary housing(multi-apartment)  
☐ Private house

Price: 400000

Floor: 3

Check suggestions

**Interested!**

Type of dwelling:

- ☐ New building(multi-apartment)  
☐ Secondary housing(multi-apartment)  
☒ Private house

Price: -400000

Check suggestions

**Not interested!**

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Type of dwelling:

☐ New building(multi-apartment)
☐ Secondary housing(multi-apartment)
☒ Private house

Price: 

Check suggestions

Interested!

## 2. Домашнє завдання:

### Завдання 8:

Створити html-структуру для генерування випадкових чисел. При натисканні на кнопку генерується випадкове число у довільному проміжку яке виводиться у дів-блок.

Random number:

23

Generate random number

### Виконання:

#### • HTML:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 8</title>
  <link rel="stylesheet" href="../styles/css/task_8.css">
  <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <fieldset class="button_section__random_number_fieldset">
        <label for="buttonRandomNumber" class="table__label_random_number">Random
number</label>
        <div class="button_section__div_output_number"><h3
class="div_output_number__h3">0</h3></div>
        <input type="button" value="Generate random number[-100; 100]"
name="buttonRandomNumber" id="buttonRandomNumber" class="table__button_random_number">

```

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```

        </fieldset>
      </section>
    </div>

    <script src="./js/task_8.js"></script>
  </div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 35vw

.button_section__random_number_fieldset
text-align: center
border: 2px solid darkgrey
padding: 5px
margin: 10px 0
width: 100%

.table__button_random_number
width: 250px
height: 28px
font-style: italic

.button_section__div_output_number
margin: 10px 0
width: 100%

```

- **JS:**

```

'use strict';

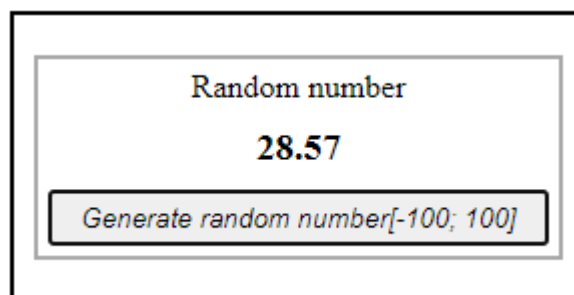
const getRandomFloat = (fromNumber, toNumber) => Math.round((Math.random() * (toNumber - fromNumber) + fromNumber) * 100) / 100;

const buttonRandomNumber = document.querySelector('#buttonRandomNumber');

buttonRandomNumber.addEventListener('click', () => {
  document.querySelector('.div_output_number__h3').innerHTML = getRandomFloat(-100, 100);
})

```

**Результат програми:**



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## Завдання 9:

Створити html сторінку з кнопкою та текстом. При натисканні на кнопку текст має ховатись або відображатись:

Hide / show text

Lorem Ipsum is simply dummy text of the printing and typesetting industry. Lorem Ipsum has been the industry's standard dummy text ever since the 1500s, when an unknown printer took a galley of type and scrambled it to make a type specimen book. It has survived not only five centuries, but also the leap into electronic typesetting, remaining essentially unchanged.

## Виконання:

- **HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 9</title>
  <link rel="stylesheet" href="./styles/css/task_9.css">
  <link rel="icon" href="../../../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <fieldset class="button_section_show_hide_fieldset">
        <input type="button" value="Show/hide text" name="buttonShowHideText"
          id="buttonShowHideText" class="table__button_show_hide_text">
        <div class="button_section__div_text">
          <p>
            Lorem ipsum dolor sit amet, consectetur adipisicing elit.
            Accusantium, animi blanditiis consequuntur dicta eaque earum eius enim et eum facere,
            id ipsam laboriosam officiis perspiciatis, quidem rem saepe unde vitae.
          </p>
          <p>
            Adipisci aperiam, cumque distinctio dolorem ducimus, eum eveniet
            expedita fuga illum in inventore, labore minima nam nobis non nostrum placeat quam
            quibusdam quisquam rerum totam ullam veniam. A, aut, cupiditate.
          </p>
          <p>
            Ad, consectetur dicta doloribus et iure laudantium ratione vitae!
            Animi dolores excepturi labore neque officia porro quam sapiente tempora
            voluptatibus. Autem cupiditate dignissimos ea facere incidunt iure omnis, reprehenderit
            unde.
          </p>
          <p>
            Aspernatur cum debitis dignissimos esse id, illo itaque iusto
            laboriosam maiores natus, nihil odit officia quibusdam quis quod recusandae
            repudiandae tempora totam velit veniam? Aliquam pariatur quaerat rem sit suscipit.
          </p>
        </div>
      </fieldset>
    </section>
  </div>
</div>
```

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```

        <p>
Architecto, aspernatur beatae commodi cum deserunt distinctio ea
error eum ex
        excepturi impedit inventore ipsa ipsum iusto laborum modi molestiae
nemo odit optio
        praesentium quam repellat saepe sed voluptatibus voluptatum!
        </p>
    </div>
</fieldset>
</section>
</div>

<script src="./js/task_9.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid black
margin: 10px 0
padding: 10px
max-width: 35vw

.button_section__show_hide_fieldset
text-align: center
border: 2px solid darkgrey
padding: 5px
margin: 10px 0
width: 100%

.table__button_show_hide_text
width: 100%
min-width: 150px
height: 28px
font-style: italic

.button_section__div_text
margin: 10px 0
width: 100%

```

- **JS:**

```

'use strict';

const buttonShowHideText = document.querySelector('#buttonShowHideText');

buttonShowHideText.addEventListener('click', () => {
    const text = document.querySelector('.button_section__div_text');

    if(text.hasAttribute('hidden')){
        text.removeAttribute('hidden');
    } else{
        text.setAttribute('hidden', '');
    }
});

```

**Результат програми:**

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Show/hide text

Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusantium, animi blanditiis consequuntur dicta eaque earum eius enim et eum facere, id ipsam laboriosam officiis perspiciatis, quidem rem saepe unde vitae.

Adipisci aperiam, cumque distinctio dolorem ducimus, eum eveniet expedita fuga illum in inventore, labore minima nam nobis non nostrum placeat quam quibusdam quisquam rerum totam ullam veniam. A, aut, cupiditate.

Ad, consectetur dicta doloribus et iure laudantium ratione vitae! Animi dolores excepturi labore neque officia porro quam sapiente tempora voluptatibus. Autem cupiditate dignissimos ea facere incidunt iure omnis, reprehenderit unde.

Aspernatur cum debitis dignissimos esse id, illo itaque iusto laboriosam maiores natus, nihil odit officia quibusdam quis quod recusandae repudiandae tempora totam velit veniam? Aliquam pariatur quaerat rem sit suscipit.

Architecto, aspernatur beatae commodi cum deserunt distinctio ea error eum ex excepturi impedit inventore ipsa ipsum iusto laborum modi molestiae nemo odit optio praesentium quam repellat saepe sed voluptatibus voluptatum!

Show/hide text

### Завдання 10:

Створити html сторінку із вкладками. У кожній вкладки є свій вміст. В один момент активною може бути тільки одна вкладка.

HTML

Hypertext Markup Language (HTML) is the standard markup language for creating web pages and web applications. With Cascading Style Sheets (CSS) and JavaScript, it forms a triad of cornerstone technologies for the World Wide Web.

CSS

JS

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

### Виконання:

- **HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 10</title>
  <link rel="stylesheet" href="../styles/css/task_10.css">
  <link rel="icon" href="../../../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
```

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```

<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <aside class="button_section__aside">
        <div class="aside__HTML" id="asideHTML">HTML</div>
        <div class="aside__CSS" id="asideCSS">CSS</div>
        <div class="aside__JS" id="asideJS">JS</div>
      </aside>
      <div class="button_section__div_HTML_text" id="divHTMLText">
        <h1>HTML</h1>
        <p>
          The HyperText Markup Language or HTML is the standard markup
            language for documents designed to be displayed in a web browser. It
can be assisted by technologies
            such as Cascading Style Sheets (CSS) and scripting languages such as
JavaScript.
        </p>
        <p>
          Web browsers receive HTML documents from a web server or from local
storage and render the documents
            into multimedia web pages. HTML describes the structure of a web page
semantically and originally
            included cues for the appearance of the document.
        </p>
        <p>
          HTML elements are the building blocks of HTML pages. With HTML
constructs, images and other objects
            such as interactive forms may be embedded into the rendered page. HTML
provides a means to create
            structured documents by denoting structural semantics for text such as
headings, paragraphs, lists,
            links, quotes and other items. HTML elements are delineated by tags,
written using angle brackets.
            Tags such as "img" and "input" directly introduce content into the
page. Other tags such as "p"
            surround and provide information about document text and may include
other tags as sub-elements.
            Browsers do not display the HTML tags but use them to interpret the
content of the page.
        </p>
        <p>
          HTML can embed programs written in a scripting language such as
JavaScript, which affects the
            behavior and content of web pages. Inclusion of CSS defines the look
and layout of content. The
            World Wide Web Consortium (W3C), former maintainer of the HTML and
current maintainer of the CSS
            standards, has encouraged the use of CSS over explicit presentational
HTML since 1997.[2] A form of
            HTML, known as HTML5, is used to display video and audio, primarily
using the
            "canvas" element, in collaboration with javascript.
        </p>
      </div>
      <div class="button_section__div_CSS_text" id="divCSSText">
        <h1>CSS</h1>
        <p>
          Cascading Style Sheets (CSS) is a style sheet language used for
describing the presentation of a
            document written in a markup language such as HTML or XML (including
XML dialects such as SVG,
            MathML or XHTML).[1] CSS is a cornerstone technology of the World Wide
Web, alongside HTML and
            JavaScript.[2]
        </p>
        <p>
          CSS is designed to enable the separation of presentation and content,
including layout, colors, and
            fonts.[3] This separation can improve content accessibility; provide
more flexibility and control in

```

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the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

</p>  
<p> Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.[4]

</p>  
<p> The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.

</p>  
<p> The CSS specifications are maintained by the World Wide Web Consortium (W3C). Internet media type (MIME type) text/css is registered for use with CSS by RFC 2318 (March 1998). The W3C operates a free CSS validation service for CSS documents.[5]

</p>  
<p> In addition to HTML, other markup languages support the use of CSS including XHTML, plain XML, SVG, and XUL.

</p>  
</div>  
<div class="button\_section\_\_div\_JS\_text" id="divJSText">  
<h1>JS</h1>  
<p> JavaScript (/ˈdʒɑːvəskript/), often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on users' devices.

</p>  
<p> JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard.[10] It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

</p>  
<p> The ECMAScript standard does not include any input/output (I/O), such as networking, storage, or graphics facilities. In practice, the web browser or other runtime system provides JavaScript APIs

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```

        for I/O.
    </p>
    <p>
        JavaScript engines were originally used only in web browsers, but are
        now core components of some
        servers and a variety of applications. The most popular runtime system
        for this usage is Node.js.
    </p>
    <p>
        Although Java and JavaScript are similar in name, syntax, and
        respective standard libraries, the two
        languages are distinct and differ greatly in design.
    </p>
</div>
</section>
</div>

<script src="./js/task_10.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid royalblue
margin: 10px 0
max-width: 60vw
display: flex
align-items: center
height: 700px

.button_section aside
background-color: royalblue
height: 100%
max-width: 30vw
display: flex
flex-direction: column
align-items: center
justify-content: center

.aside_HTML, .aside_CSS, .aside_JS
height: 75px
width: 100%
font-size: 24px
display: flex
align-items: center
justify-content: center
&:hover
background-color: #6389df
cursor: pointer

.button_section div_HTML_text, .button_section div_CSS_text, .button_section div_JS_text
background-color: bisque
height: 100%
padding: 15px
display: flex
flex-direction: column
justify-content: center

```

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**P**  
margin: 10px 0

- **JS:**

```
'use strict';

const chooseSelector = (chosenElem) => chosenElem.style.backgroundColor = '#6389df';
const unChooseSelector = (chosenElem) => chosenElem.style.backgroundColor = '#4169E1FF';

const hiddenSelector = (selector) => selector.style.display = 'none';
// const hiddenSelector = (selector) => selector.setAttribute('hidden', '');

const unhiddenSelector = (selector) => selector.style.display = 'flex';
// const unhiddenSelector = (selector) => selector.removeAttribute('hidden');

const divHTMLText = document.querySelector('#divHTMLText');
const divCSSText = document.querySelector('#divCSSText');
const divJSText = document.querySelector('#divJSText');

const asideHTML = document.querySelector('#asideHTML');
const asideCSS = document.querySelector('#asideCSS');
const asideJS = document.querySelector('#asideJS');

chooseSelector(asideHTML);
hiddenSelector(divCSSText);
hiddenSelector(divJSText);

asideHTML.addEventListener('click', () => {
    chooseSelector(asideHTML);
    unChooseSelector(asideCSS);
    unChooseSelector(asideJS);

    unhiddenSelector(divHTMLText);
    hiddenSelector(divCSSText);
    hiddenSelector(divJSText);
});

asideCSS.addEventListener('click', () => {
    chooseSelector(asideCSS);
    unChooseSelector(asideHTML);
    unChooseSelector(asideJS);

    unhiddenSelector(divCSSText);
    hiddenSelector(divHTMLText);
    hiddenSelector(divJSText);
});

asideJS.addEventListener('click', () => {
    chooseSelector(asideJS);
    unChooseSelector(asideHTML);
    unChooseSelector(asideCSS);

    unhiddenSelector(divJSText);
    hiddenSelector(divHTMLText);
    hiddenSelector(divCSSText);
});
```

**Результат програми:**

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HTML

## HTML

The HyperText Markup Language or HTML is the standard markup language for documents designed to be displayed in a web browser. It can be assisted by technologies such as Cascading Style Sheets (CSS) and scripting languages such as JavaScript.

Web browsers receive HTML documents from a web server or from local storage and render the documents into multimedia web pages. HTML describes the structure of a web page semantically and originally included cues for the appearance of the document.

CSS

HTML elements are the building blocks of HTML pages. With HTML constructs, images and other objects such as interactive forms may be embedded into the rendered page. HTML provides a means to create structured documents by denoting structural semantics for text such as headings, paragraphs, lists, links, quotes and other items. HTML elements are delineated by tags, written using angle brackets. Tags such as "img" and "input" directly introduce content into the page. Other tags such as "p" surround and provide information about document text and may include other tags as sub-elements. Browsers do not display the HTML tags but use them to interpret the content of the page.

JS

HTML can embed programs written in a scripting language such as JavaScript, which affects the behavior and content of web pages. Inclusion of CSS defines the look and layout of content. The World Wide Web Consortium (W3C), former maintainer of the HTML and current maintainer of the CSS standards, has encouraged the use of CSS over explicit presentational HTML since 1997.[2] A form of HTML, known as HTML5, is used to display video and audio, primarily using the "canvas" element, in collaboration with javascript.

HTML

## CSS

Cascading Style Sheets (CSS) is a style sheet language used for describing the presentation of a document written in a markup language such as HTML or XML (including XML dialects such as SVG, MathML or XHTML).[1] CSS is a cornerstone technology of the World Wide Web, alongside HTML and JavaScript.[2]

CSS is designed to enable the separation of presentation and content, including layout, colors, and fonts.[3] This separation can improve content accessibility; provide more flexibility and control in the specification of presentation characteristics; enable multiple web pages to share formatting by specifying the relevant CSS in a separate .css file, which reduces complexity and repetition in the structural content; and enable the .css file to be cached to improve the page load speed between the pages that share the file and its formatting.

CSS

Separation of formatting and content also makes it feasible to present the same markup page in different styles for different rendering methods, such as on-screen, in print, by voice (via speech-based browser or screen reader), and on Braille-based tactile devices. CSS also has rules for alternate formatting if the content is accessed on a mobile device.[4]

JS

The name cascading comes from the specified priority scheme to determine which style rule applies if more than one rule matches a particular element. This cascading priority scheme is predictable.

The CSS specifications are maintained by the World Wide Web Consortium (W3C). Internet media type (MIME type) text/css is registered for use with CSS by RFC 2318 (March 1998). The W3C operates a free CSS validation service for CSS documents.[5]

In addition to HTML, other markup languages support the use of CSS including XHTML, plain XML, SVG, and XUL.

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HTML

CSS

JS

## JS

JavaScript (/ˈdʒɑːvəskript/), often abbreviated as JS, is a programming language that is one of the core technologies of the World Wide Web, alongside HTML and CSS. As of 2022, 98% of websites use JavaScript on the client side for webpage behavior, often incorporating third-party libraries. All major web browsers have a dedicated JavaScript engine to execute the code on users' devices.

JavaScript is a high-level, often just-in-time compiled language that conforms to the ECMAScript standard.[10] It has dynamic typing, prototype-based object-orientation, and first-class functions. It is multi-paradigm, supporting event-driven, functional, and imperative programming styles. It has application programming interfaces (APIs) for working with text, dates, regular expressions, standard data structures, and the Document Object Model (DOM).

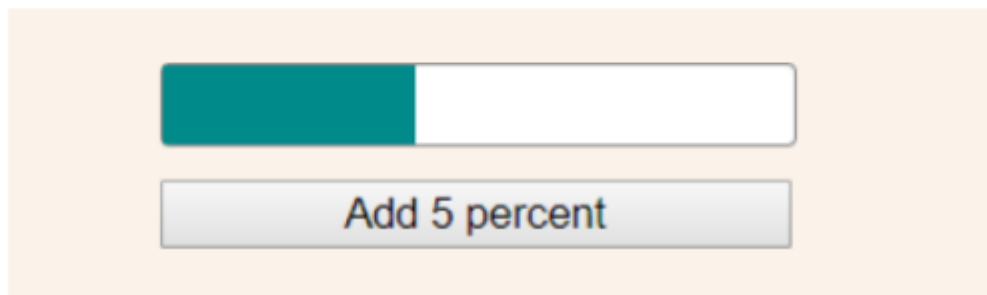
The ECMAScript standard does not include any input/output (I/O), such as networking, storage, or graphics facilities. In practice, the web browser or other runtime system provides JavaScript APIs for I/O.

JavaScript engines were originally used only in web browsers, but are now core components of some servers and a variety of applications. The most popular runtime system for this usage is Node.js.

Although Java and JavaScript are similar in name, syntax, and respective standard libraries, the two languages are distinct and differ greatly in design.

## Завдання 11:

Створити html сторінку з прогресбаром и кнопкою яка змінює його заповненість.



## Виконання:

- HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 11</title>
  <link rel="stylesheet" href="../styles/css/task_11.css">
  <link rel="icon" href="../../img/icons/racoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <progress class="button_section__progress_bar" id="progressBar" max="100"
value="5">5%</progress>
      <div class="button_section__buttons">
        <input class="button_section__button_add" id="buttonAddProgressBar"
```

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```

type="button" value="Add 5 percents">
    <input class="button_section__button_remove" id="buttonRemoveProgressBar"
type="button" value="Remove 5 percents">
    </div>
</section>
</div>

<script src="./js/task_11.js"></script>
</div>
</body>
</html>

```

- **SASS:**

```

*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 2px solid darkgrey
background-color: #e8e8e8
margin: 10px 0
max-width: 60vw
display: flex
flex-direction: column
justify-content: center
align-items: center
width: 600px
height: 30vh

.button_section__progress_bar
height: 20px
background-color: white

&::-webkit-progress-bar
background-color: #a5a5a5
border-radius: 5%

&::-webkit-progress-value
background-color: seagreen
border-radius: 5%

&[value]::-webkit-progress-value::before
content: '80%'
position: absolute
right: 0
top: -125%

.button_section__buttons
width: 90%
display: flex
justify-content: center

.button_section__button_add, .button_section__button_remove
margin: 15px
height: 28px
width: 30%
background-color: #f3f3f3
border: 2px solid #626262
border-radius: 5%
cursor: pointer

```

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- **JS:**

```
'use strict';

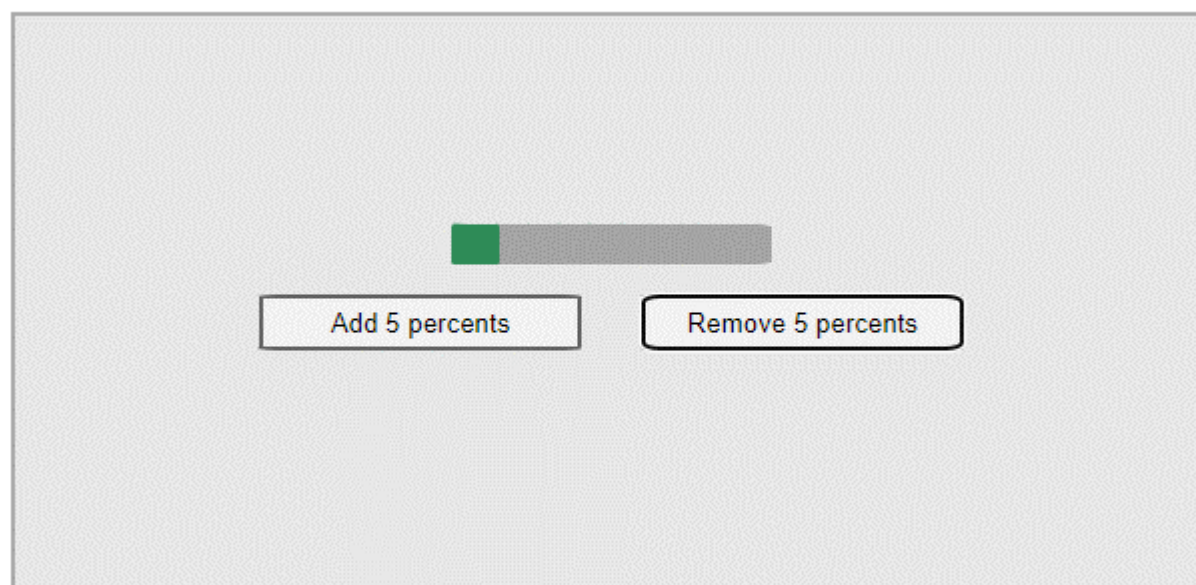
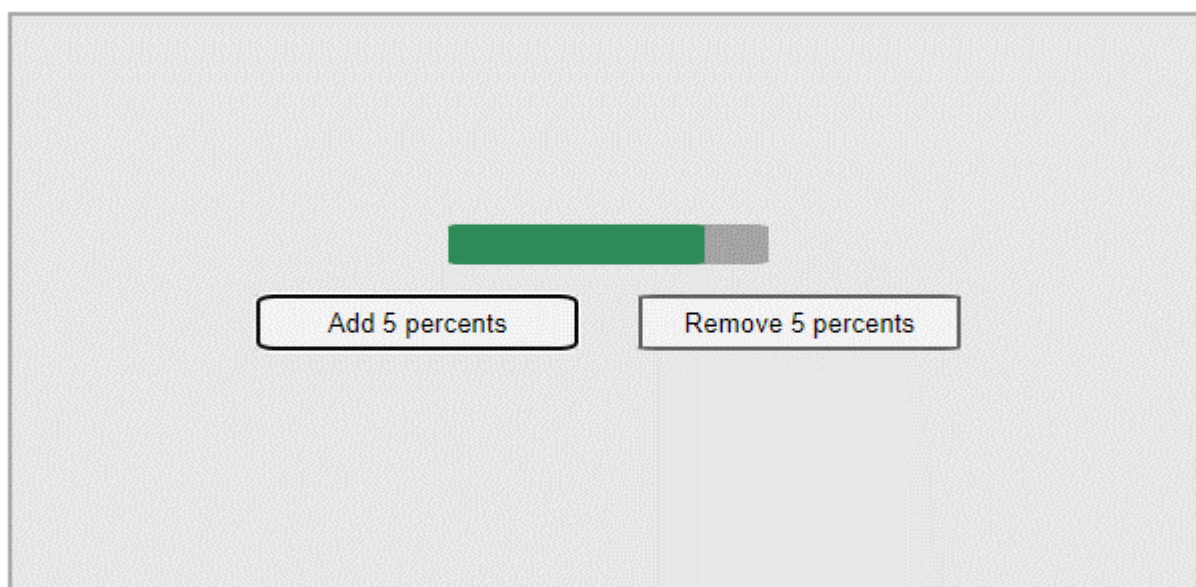
const progressBar = document.querySelector('#progressBar');
const buttonAddProgressBar = document.querySelector('#buttonAddProgressBar');

buttonAddProgressBar.addEventListener('click', () => {
    progressBar.value += 5;
});

const buttonRemoveProgressBar = document.querySelector('#buttonRemoveProgressBar');

buttonRemoveProgressBar.addEventListener('click', () => {
    progressBar.value -= 5;
});
```

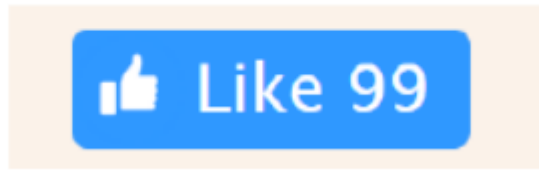
**Результат програми:**





## Завдання 12:

Створити кнопку для соцмереж. Кожне натискання змінює к-сть реакцій.



### Виконання:

- **HTML:**

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Task 12</title>
  <link rel="stylesheet" href="../styles/css/task_12.css">
  <link rel="icon" href="../../../../img/icons/raccoon_animal_icon_123571.ico">
</head>
<body>
<div class="wrapper">
  <div class="container">
    <section class="button_section">
      <button class="button_section_button_like" id="buttonLike" value="0">
        
        Like 0
      </button>
    </section>
  </div>

  <script src="../js/task_12.js"></script>
</div>
</body>
</html>
```

- **SASS:**

```
*
margin: 0
padding: 0
box-sizing: border-box

.wrapper
width: 100%
height: 100vh
display: flex
align-items: center
flex-direction: column

.button_section
border: 1.5px solid darkgrey
background-color: #e8e8e8
margin: 10px 0
max-width: 20vw
display: flex
flex-direction: column
justify-content: center
align-items: center
width: 250px
height: 10vh

.button_section button like
```

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```
width: 150px
height: 50px
font-size: 20px
color: white
background-color: #c1c1c1
cursor: pointer
border: 2px solid darkgrey
border-radius: 10px

&:hover
  background-color: #a2a2a2

display: flex
justify-content: space-evenly
align-items: center

.button_section__raccoon_ico
width: 40px
height: 40px
```

- **JS:**

```
'use strict';

const buttonLike = document.querySelector('#buttonLike');

buttonLike.addEventListener('click', () => {
  buttonLike.value = `${parseInt(buttonLike.value) + 1}`;
  buttonLike.innerHTML = `
Like ${buttonLike.value}`;
});
```

**Результат програми:**



**Репозиторій лабораторної роботи:**

- <https://github.com/AndriiBabushko/Frontend>

**Висновок:** під час виконання лабораторної роботи було отримано навички обробки подій в мові JavaScript.

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