***Лабораторна робота №4***

***Хід роботи:***

***Завдання на лабораторну роботу:***

1. ***Завдання на лабораторну роботу:***

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***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">  
 <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*="imgRaccoon1" *class*="table\_\_label\_img">First image:</label>  
 </td>  
 <td>  
 <img *src*="./img/raccoon(1).png" *alt*="raccoon(1)" *class*="table\_\_img" *id*="imgRaccoon1">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <div *class*="table\_\_div\_raccoon\_1\_src"></div>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="imgRaccoon2" *class*="table\_\_label\_img">Second image:</label>  
 </td>  
 <td>  
 <img *src*="./img/raccoon(2).png" *alt*="raccoon(2)" *class*="table\_\_img" *id*="imgRaccoon2">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <div *class*="table\_\_div\_raccoon\_2\_src"></div>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="imgRaccoon3" *class*="table\_\_label\_img">Third image:</label>  
 </td>  
 <td>  
 <img *src*="./img/raccoon(3).png" *alt*="raccoon(3)" *class*="table\_\_img" *id*="imgRaccoon3">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <div *class*="table\_\_div\_raccoon\_3\_src"></div>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="imgRaccoon4" *class*="table\_\_label\_img">Fourth image:</label>  
 </td>  
 <td>  
 <img *src*="./img/raccoon(4).png" *alt*="raccoon(4)" *class*="table\_\_img" *id*="imgRaccoon4">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <div *class*="table\_\_div\_raccoon\_4\_src"></div>  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_1.js"></script>  
</div>  
</body>  
</html>

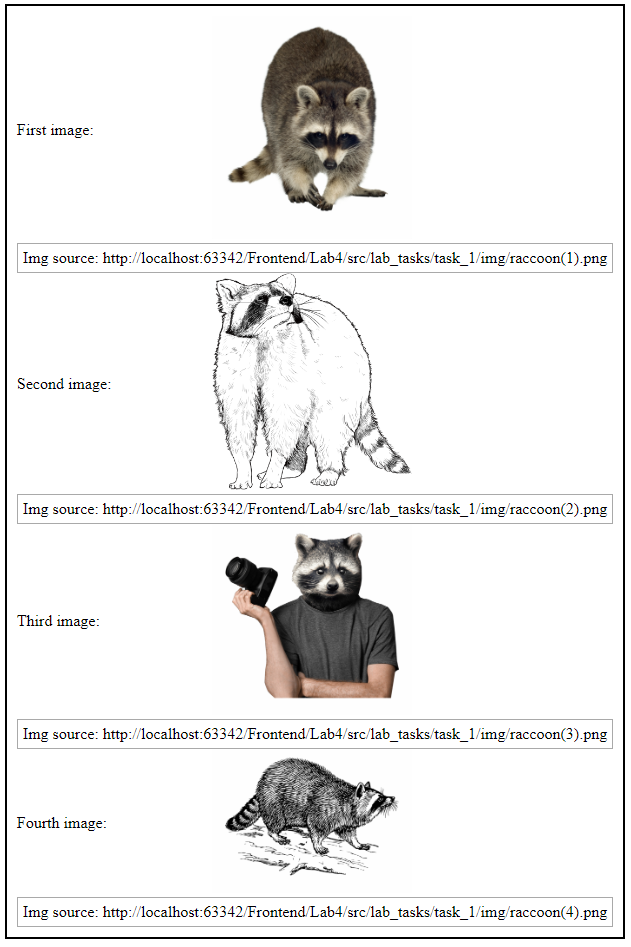
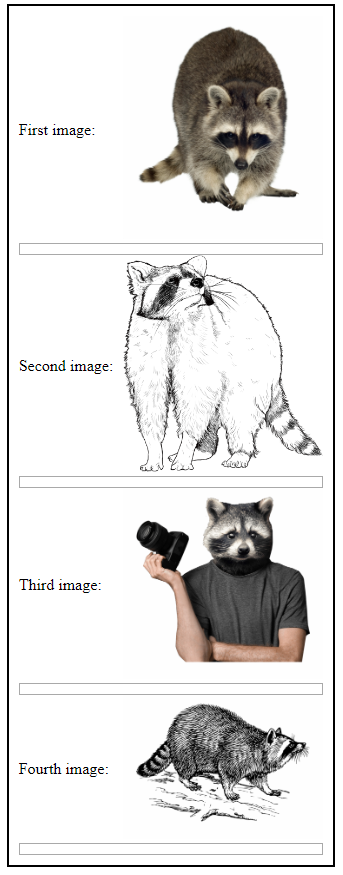
* ***SASS:***

\*  
 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: 40vw  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_img* width: 200px  
 margin-left: 10px  
  
.*table\_\_div\_raccoon\_1\_src*, .*table\_\_div\_raccoon\_2\_src*, .*table\_\_div\_raccoon\_3\_src*, .*table\_\_div\_raccoon\_4\_src* border: 1px solid darkgrey  
 padding: 5px

* ***JS:***

'use strict';  
  
*const* raccoonImages = document.querySelectorAll('.table\_\_img');  
*for* (*let* i = 0; i < raccoonImages.length; i++) {  
 raccoonImages[i].addEventListener('click', (event) => {  
 *const* imgIndex = i + 1  
 console.log(imgIndex);  
 *const* outputDiv = document.querySelector(`.table\_\_div\_raccoon\_${imgIndex}\_src`);  
 console.log(event.target.src);  
 console.log(outputDiv);  
 outputDiv.innerHTML = `<p>Img source: ${event.target.src}</p>`;  
 })  
}

***Результат програми:***



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***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/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*="paragraph\_one" *class*="table\_\_label\_paragraph">Paragraph 1:</label>  
 </td>  
 <td>  
 <p *id*="paragraph\_one" *class*="table\_\_paragraph"></p>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="paragraph\_two" *class*="table\_\_label\_paragraph">Paragraph 2:</label>  
 </td>  
 <td>  
 <p *id*="paragraph\_two" *class*="table\_\_paragraph"></p>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="paragraph\_three" *class*="table\_\_label\_paragraph">Paragraph 3:</label>  
 </td>  
 <td>  
 <p *id*="paragraph\_three" *class*="table\_\_paragraph"></p>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="paragraph\_four" *class*="table\_\_label\_paragraph">Paragraph 4:</label>  
 </td>  
 <td>  
 <p *id*="paragraph\_four" *class*="table\_\_paragraph"></p>  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_2.js"></script>  
</div>  
</body>  
</html>

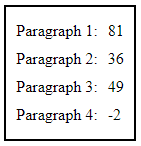
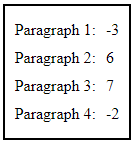
* ***SASS:***

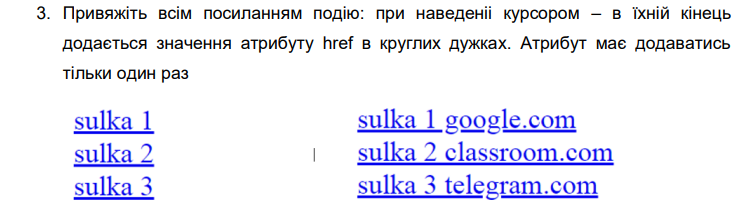
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 30vw  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_paragraph* margin: 5px 0 5px 10px  
 cursor: pointer

* ***JS:***

'use strict';  
  
*const getRandomInt*= (*fromNumber*, *toNumber*) => Math.round((Math.random() \* (*toNumber* -  
 *fromNumber*) + *fromNumber*));  
  
*const* paragraphs = document.querySelectorAll('.*table\_\_paragraph*');  
*for* (*let* i = 0; i < paragraphs.length; i++) {  
 *const* generatedNumber = *getRandomInt*(-10, 10);  
 paragraphs[i].innerHTML = `${generatedNumber}`;  
 paragraphs[i].setAttribute('value', generatedNumber.toString())  
 paragraphs[i].addEventListener('click', (*event*) => {  
 *const* number = *parseInt*(*event*.target.getAttribute('value')) \*\* 2;  
 paragraphs[i].setAttribute('value', number.toString())  
 paragraphs[i].innerHTML = `${number}`;  
 });  
}

***Результат програми:***

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***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*="aLinkOne" *class*="table\_\_label\_link">First link:</label>  
 </td>  
 <td>  
 <a *id*="aLinkOne" *href*="https://github.com/AndriiBabushko/Frontend" *class*="table\_\_link" *title*="GitHub" *value*="LINK">LINK</a>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="aLinkTwo" *class*="table\_\_label\_link">Second link:</label>  
 </td>  
 <td>  
 <a *id*="aLinkTwo" *href*="https://www.youtube.com/watch?v=ywtqzPVIfx0" *class*="table\_\_link" *title*="Youtube" *value*="LINK">LINK</a>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="aLinkThree" *class*="table\_\_label\_link">Third link:</label>  
 </td>  
 <td>  
 <a *id*="aLinkThree" *href*="https://developer.mozilla.org/en-US/" *class*="table\_\_link" *title*="MDN" *value*="LINK">LINK</a>  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_3.js"></script>  
</div>  
</body>  
</html>

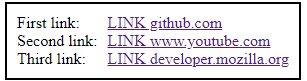
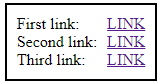
* ***SASS:***

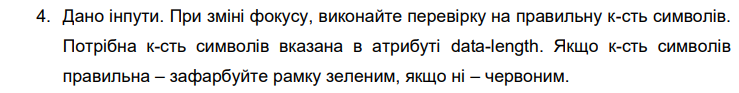
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 30vw  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_link* margin: 5px 0 5px 10px

* ***JS:***

'use strict';  
  
*const* links = document.querySelectorAll('.*table\_\_link*');  
*for* (*let* i = 0; i < links.length; i++) {  
 links[i].addEventListener('mouseover', (*event*)=> {  
 *const* target = *event*.target;  
 *const* link = target.getAttribute('href');  
 *const* value = target.getAttribute('value');  
 *const* splitLink = link.split(/\/\/|\//);  
 links[i].innerHTML = `${value} ${splitLink[1]}`;  
 });  
}

***Результат програми:***



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***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*="textFirstInput" *class*="table\_\_label\_text">First input:</label>  
 </td>  
 <td>  
 <input *type*="text" *name*="textFirstInput" *id*="textFirstInput" *class*="table\_\_text" *placeholder*="First text" *data-length*="10">  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="textSecondInput" *class*="table\_\_label\_text">Second input:</label>  
 </td>  
 <td>  
 <input *type*="text" *name*="textSecondInput" *id*="textSecondInput" *class*="table\_\_text" *placeholder*="Second text input" *data-length*="20">  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <label *for*="textThirdInput" *class*="table\_\_label\_text">Third input:</label>  
 </td>  
 <td>  
 <input *type*="text" *name*="textThirdInput" *id*="textThirdInput" *class*="table\_\_text" *placeholder*="Third" *data-length*="5">  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_4.js"></script>  
</div>  
</body>  
</html>

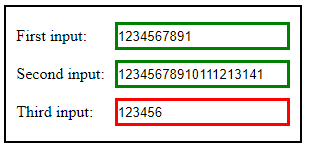
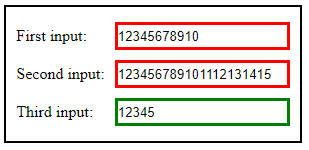
* ***SASS:***

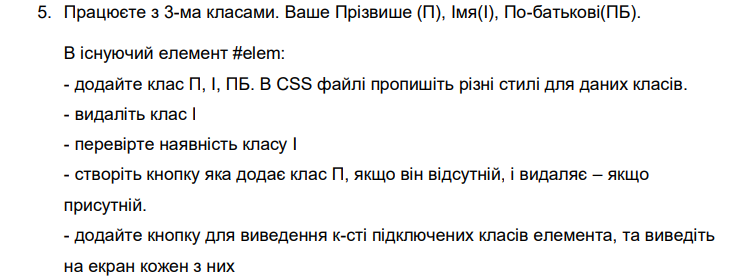
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 30vw  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_text* margin: 5px 0 5px 10px  
 height: 28px  
 border-style: solid

* ***JS:***

'use strict';  
  
*const* textInputs = document.querySelectorAll('.*table\_\_text*');  
*for* (*let* i = 0; i < textInputs.length; i++) {  
 textInputs[i].addEventListener('focus', (*event*) => {  
 *const* dataLength = *parseInt*(textInputs[i].dataset.length);  
 *const* textInputValue = textInputs[i].value;  
  
 *if* (textInputValue.length <= dataLength) {  
 textInputs[i].style.borderColor = 'green';  
 textInputs[i].style.borderWidth = '3px';  
 } *else* {  
 textInputs[i].style.borderColor = 'red';  
 textInputs[i].style.borderWidth = '3px';  
 }  
 });  
}

***Результат програми:***



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***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*="element" *class*="table\_\_label\_element">First text element:</label>  
 </td>  
 <td>  
 <p *id*="element" *class*="table\_\_p\_elem first\_name last\_name middle\_name">Some text in first element</p>  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <input *type*="button" *value*="Add/remove first name class" *id*="buttonAddRemoveFirstName" *class*="table\_\_button\_add\_remove\_first\_name">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <input *type*="button" *value*="Add/remove last name class" *id*="buttonAddRemoveLastName" *class*="table\_\_button\_add\_remove\_last\_name">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <input *type*="button" *value*="Add/remove middle name class" *id*="buttonAddRemoveMiddleName" *class*="table\_\_button\_add\_remove\_middle\_name">  
 </td>  
 </tr>  
 <tr>  
 <td *colspan*="2">  
 <input *type*="button" *value*="Check classes" *id*="buttonCheckClasses" *class*="table\_\_button\_check\_classes">  
 </td>  
 </tr>  
 </table>  
 <div *class*="button\_section\_\_output\_info" *id*="divOutputInfo"></div>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_5.js"></script>  
</div>  
</body>  
</html>

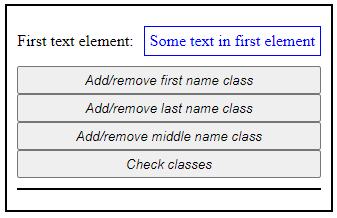
* ***SASS:***

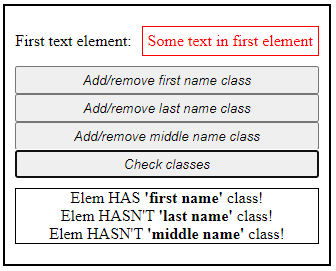
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 30vw  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_p\_elem* margin: 10px 0 10px 10px  
 padding: 5px  
  
.*first\_name* border: 1px solid red  
 color: red  
  
.*last\_name* border: 1px solid green  
 color: green  
  
.*middle\_name* border: 1px solid blue  
 color: blue  
  
.*table\_\_button\_add\_remove\_first\_name*, .*table\_\_button\_add\_remove\_last\_name*, .*table\_\_button\_add\_remove\_middle\_name*, .*table\_\_button\_check\_classes* width: 100%  
 height: 28px  
 font-style: italic  
  
.*button\_section\_\_output\_info* border: 1px solid black  
 margin: 10px 0  
 text-align: center

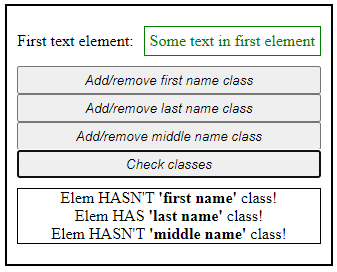
* ***JS:***

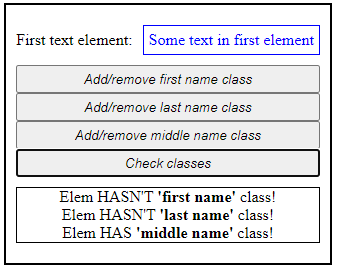
'use strict';  
  
*const* element = document.querySelector('#element');  
*const* divOutputInfo = document.querySelector('#divOutputInfo');  
*const* buttonAddRemoveFirstName = document.querySelector('#buttonAddRemoveFirstName');  
*const* buttonAddRemoveLastName = document.querySelector('#buttonAddRemoveLastName');  
*const* buttonAddRemoveMiddleName = document.querySelector('#buttonAddRemoveMiddleName');  
*const* buttonCheckClasses = document.querySelector('#buttonCheckClasses');  
  
*const checkElementClass* = (*element*, *className*) => {  
 *if* (*element*.classList.contains(*className*)) {  
 console.log(`HAVE '${*className*}' CLASS!!!`);  
 *return true*;  
 }  
 console.log(`DON'T HAVE '${*className*}' CLASS!!!`);  
 *return false*;  
};  
  
buttonAddRemoveFirstName.addEventListener('click', () => {  
 *if* (*checkElementClass*(element, 'first\_name')) {  
 element.classList.remove('first\_name');  
 } *else* {  
 element.classList.add('first\_name');  
 }  
});  
  
buttonAddRemoveLastName.addEventListener('click', () => {  
 *if* (*checkElementClass*(element, 'last\_name')) {  
 element.classList.remove('last\_name');  
 } *else* {  
 element.classList.add('last\_name');  
 }  
});  
  
buttonAddRemoveMiddleName.addEventListener('click', () => {  
 *if* (*checkElementClass*(element, 'middle\_name')) {  
 element.classList.remove('middle\_name');  
 } *else* {  
 element.classList.add('middle\_name');  
 }  
});  
  
buttonCheckClasses.addEventListener('click', () => {  
 divOutputInfo.innerHTML = '';  
 *if* (element.classList.contains('first\_name'))  
 divOutputInfo.innerHTML += `<p>Elem HAS <strong>'first name'</strong> class!</p>`;  
 *else* divOutputInfo.innerHTML += `<p>Elem HASN'T <strong>'first name'</strong> class!</p>`;  
 *if* (element.classList.contains('last\_name'))  
 divOutputInfo.innerHTML += `<p>Elem HAS <strong>'last name'</strong> class!</p>`;  
 *else* divOutputInfo.innerHTML += `<p>Elem HASN'T <strong>'last name'</strong> class!</p>`;  
 *if* (element.classList.contains('middle\_name'))  
 divOutputInfo.innerHTML += `<p>Elem HAS <strong>'middle name'</strong> class!</p>`;  
 *else* divOutputInfo.innerHTML += `<p>Elem HASN'T <strong>'middle name'</strong> class!</p>`;  
});

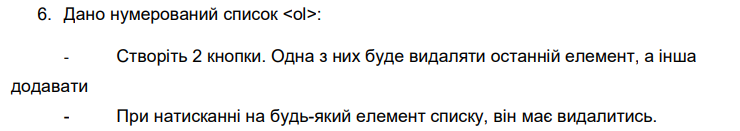
***Результат програми:***

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***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*="olList" *class*="table\_\_label\_ol\_list" *id*="labelOlList">Ol elements list:</label>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <ol *class*="table\_\_ol\_list" *id*="olList">  
 <li *class*="ol\_list\_\_li\_element">1</li>  
 <li *class*="ol\_list\_\_li\_element">2</li>  
 <li *class*="ol\_list\_\_li\_element">3</li>  
 <li *class*="ol\_list\_\_li\_element">4</li>  
 <li *class*="ol\_list\_\_li\_element">5</li>  
 </ol>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <input *type*="button" *value*="Add element to ol list" *id*="buttonAddElemList" *class*="table\_\_button\_add\_elem\_list">  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <input *type*="button" *value*="Remove element from ol list" *id*="buttonRemoveElemList" *class*="table\_\_button\_remove\_elem\_list">  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_6.js"></script>  
</div>  
</body>  
</html>

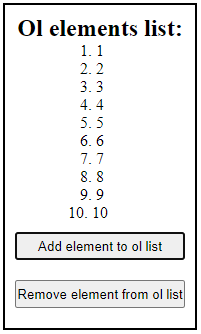
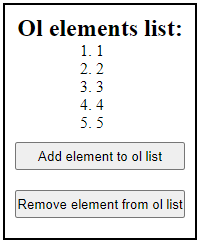
* ***SASS:***

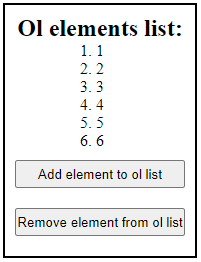
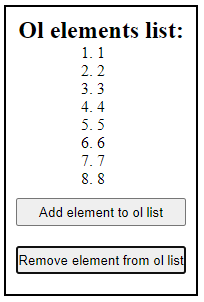
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 text-align: center  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_label\_ol\_list* font-size: 24px  
 font-weight: bold  
  
.*table\_\_ol\_list* display: flex  
 flex-direction: column  
 align-items: center  
  
.*ol\_list\_\_li\_element* cursor: pointer  
  
.*table\_\_button\_add\_elem\_list*, .*table\_\_button\_remove\_elem\_list* margin: 10px 0  
 width: 100%  
 height: 28px

* ***JS:***

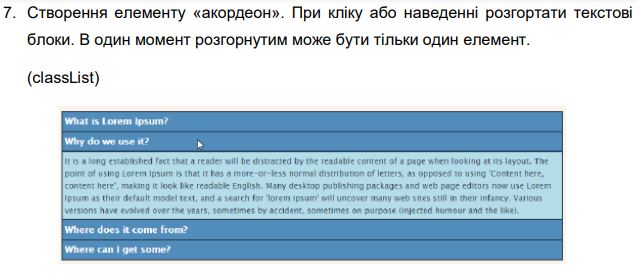
'use strict';  
  
*function removeItemFromArray*(*array*, *item*) {  
 *const* itemIndex = *array*.indexOf(*item*);  
  
 *if* (itemIndex > -1)  
 *array*.splice(itemIndex, 1);  
  
 *return array*;  
}  
  
*function addEventListenersToList*(*nodeList*, *elemsList*) {  
 *for* (*let* i = 0; i < *nodeList*.length; i++) {  
 *nodeList*[i].addEventListener('click', (*event*) => {  
 *const* target = *event*.target;  
 elemsList = removeItemFromArray(elemsList, target.textContent);  
 target.remove();  
 })  
 }  
}  
  
*const* buttonAddElemList = document.querySelector('#buttonAddElemList');  
*const* buttonRemoveElemList = document.querySelector('#buttonRemoveElemList');  
  
*const* olList = document.querySelector('#olList');  
*let* olListElements = document.querySelectorAll('.ol\_list\_\_li\_element');  
  
*let* elemsList = []  
*for* (*let* i = 0; i < olListElements.length; i++) {  
 elemsList.push(olListElements[i].textContent);  
}  
  
buttonAddElemList.addEventListener('click', () => {  
 *const* element = document.createElement('li');  
 element.innerHTML = `${elemsList.length + 1}`;  
 element.classList.add('ol\_list\_\_li\_element');  
  
 elemsList.push((elemsList.length + 1).toString());  
 olList.appendChild(element);  
  
 olListElements = document.querySelectorAll('.ol\_list\_\_li\_element');  
 addEventListenersToList(olListElements, elemsList);  
});  
  
buttonRemoveElemList.addEventListener('click', () => {  
 olListElements[elemsList.length - 1].remove()  
 elemsList.pop();  
});

***Результат програми:***

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1. ***Домашнє завдання:***

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***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/racoon\_animal\_icon\_123571.ico">  
</head>  
<body>  
<div *class*="wrapper">  
 <div *class*="container">  
 <section *class*="button\_section">  
 <div *class*="button\_section\_\_div\_post">  
 <div *class*="div\_post\_\_head">  
 <div *class*="head\_\_title">Heading</div>  
 </div>  
 <div *class*="div\_post\_\_body">  
 <p *class*="body\_\_paragraph">  
 <span>  
 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus amet commodi consequatur cum dolor dolorum earum, est eveniet laboriosam nemo  
 nostrum nulla omnis optio placeat quas quo, reprehenderit saepe soluta!  
 </span>  
 <span>  
 Architecto at atque commodi dolor, dolorum eligendi ipsam iure laborum magni molestias neque nisi optio sapiente similique soluta tenetur ullam  
 voluptatum? A atque distinctio earum magnam magni nobis non optio?  
 </span>  
 <span>  
 Accusantium ad, assumenda at consequatur culpa eaque eos, inventore, magnam nobis quis rem sint voluptatum? A alias, consequuntur illo mollitia  
 nulla reprehenderit temporibus voluptatem voluptates. Aperiam beatae dolore eligendi recusandae!  
 </span>  
 </p>  
 </div>  
 </div>  
 <div *class*="button\_section\_\_div\_post">  
 <div *class*="div\_post\_\_head">  
 <div *class*="head\_\_title">Heading</div>  
 </div>  
 <div *class*="div\_post\_\_body">  
 <p *class*="body\_\_paragraph">  
 <span>  
 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus amet commodi consequatur cum dolor dolorum earum, est eveniet laboriosam nemo  
 nostrum nulla omnis optio placeat quas quo, reprehenderit saepe soluta!  
 </span>  
 <span>  
 Architecto at atque commodi dolor, dolorum eligendi ipsam iure laborum magni molestias neque nisi optio sapiente similique soluta tenetur ullam  
 voluptatum? A atque distinctio earum magnam magni nobis non optio?  
 </span>  
 </p>  
 </div>  
 </div>  
 <div *class*="button\_section\_\_div\_post">  
 <div *class*="div\_post\_\_head">  
 <div *class*="head\_\_title">Heading</div>  
 </div>  
 <div *class*="div\_post\_\_body">  
 <p *class*="body\_\_paragraph">  
 <span>  
 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus amet commodi consequatur cum dolor dolorum earum, est eveniet laboriosam nemo  
 nostrum nulla omnis optio placeat quas quo, reprehenderit saepe soluta!  
 </span>  
 </p>  
 </div>  
 </div>  
 </section>  
 </div>  
  
 <script *src*="js/task\_7.js"></script>  
</div>  
</body>  
</html>

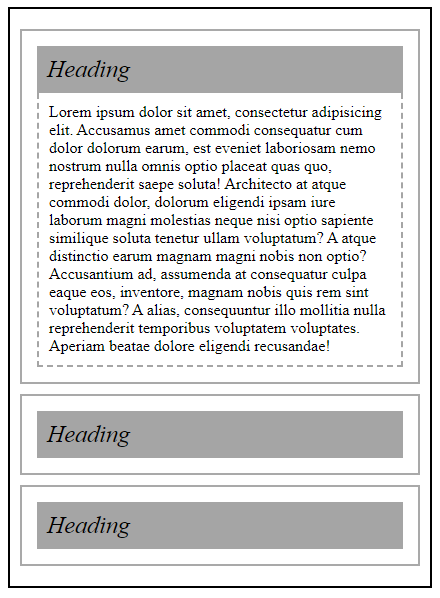
* ***SASS:***

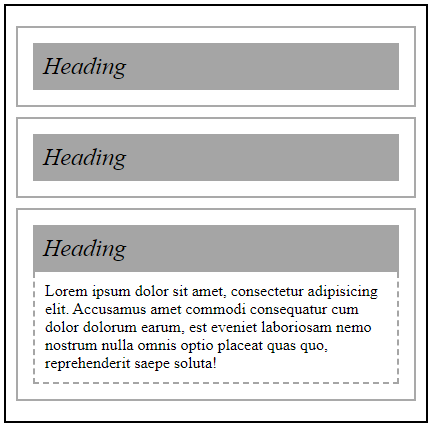
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 35vw  
  
.*button\_section\_\_div\_post* border: 2px solid darkgrey  
 padding: 15px  
 margin: 10px 0  
 width: 400px  
  
.*div\_post\_\_head* background-color: #a5a5a5  
 font-style: italic  
 font-size: 24px  
 cursor: pointer  
 display: flex  
 justify-content: space-between  
  
.*div\_post\_\_body* border-bottom: 2px dashed #a5a5a5  
 border-left: 2px dashed #a5a5a5  
 border-right: 2px dashed #a5a5a5  
 display: none  
 &.*div\_post\_\_body\_display* display: block  
  
.*div\_post\_\_head*, .*div\_post\_\_body* padding: 10px

* ***JS:***

'use strict';  
  
*const setPosts* = (*target*, *postIndex*, *posts*, *postsStatus*) => {  
 *if* (!*postsStatus*.includes('active')) {  
 *target*.nextElementSibling.classList.toggle('div\_post\_\_body\_display');  
  
 *postsStatus*[*parseInt*(*target*.getAttribute('value'))] = 'active';  
 } *else* {  
 *if* (*postsStatus*.includes('active')) {  
 *const* activeIndex = *postsStatus*.findIndex((*element*) => *element* === 'active');  
  
 *posts*[activeIndex].nextElementSibling.classList.toggle('div\_post\_\_body\_display');  
 *target*.nextElementSibling.classList.toggle('div\_post\_\_body\_display');  
  
 *postsStatus*[*parseInt*(*posts*[*postIndex*].getAttribute('value'))] = 'active';  
 *postsStatus*[activeIndex] = 'inactive';  
 }  
 }  
}  
  
*const* posts = document.querySelectorAll('.*button\_section\_\_div\_post* .*div\_post\_\_head*');  
*let* postsStatus = [];  
  
*for* (*let* i = 0; i < posts.length; i++) {  
 posts[i].classList.add('inactive');  
 posts[i].setAttribute('value', i.toString());  
 postsStatus.push('inactive');  
  
 posts[i].addEventListener('click', (*event*) => {  
 *const* target = *event*.target;  
  
 *setPosts*(target, i, posts, postsStatus);  
 });  
  
 posts[i].addEventListener('mouseover', (*event*) => {  
 *const* target = *event*.target;  
  
 *setPosts*(target, i, posts, postsStatus);  
 });  
}

***Результат програми:***





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***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">  
 <table *class*="button\_section\_\_table">  
 <tr>  
 <td>  
 <div *class*="table\_\_div\_blocks\_container"></div>  
 </td>  
 </tr>  
 <tr>  
 <td>  
 <input *type*="button" *value*="New block!" *id*="buttonNewBlock" *class*="table\_\_button\_new\_block">  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_8.js"></script>  
</div>  
</body>  
</html>

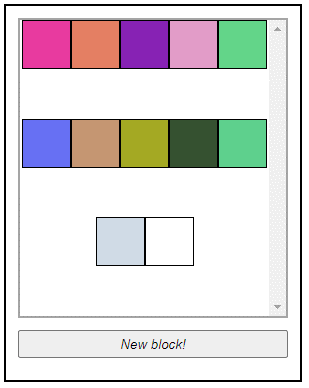
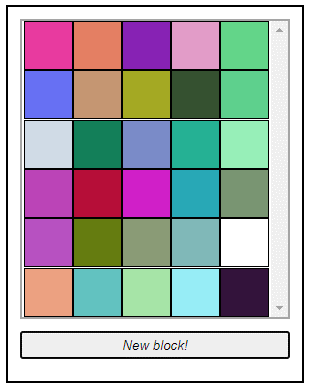
* ***SASS:***

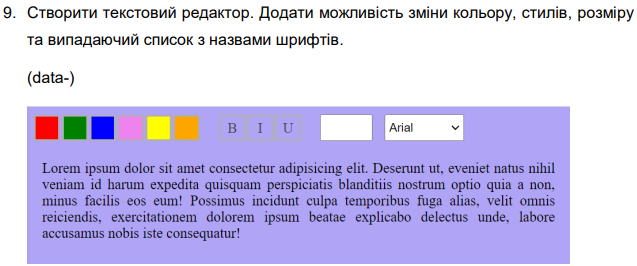
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 35vw  
  
.*table\_\_div\_blocks\_container* width: 270px  
 height: 300px  
 border: 2px solid #a5a5a5  
 overflow-y: scroll  
 display: flex  
 flex-wrap: wrap  
 justify-content: center  
  
.*div\_blocks\_container\_\_block* width: 49px  
 height: 49px  
 border: 1px solid black  
 cursor: pointer  
  
.*table\_\_button\_new\_block* margin: 10px 0  
 width: 100%  
 height: 28px  
 font-style: italic

* ***JS:***

'use strict';  
  
*const generateRandomColor* = () => Math.floor(Math.random() \* 16777215).toString(16);  
  
*const setEventsToBlocks* = () => {  
 *let* blocks = document.querySelectorAll('.*div\_blocks\_container\_\_block*');  
  
 *for* (*let* i = 0; i < blocks.length; i++) {  
 blocks[i].addEventListener('click', (*event*) => {  
 *event*.target.remove();  
 });  
 }  
};  
  
*const* buttonNewBlock = document.querySelector('#buttonNewBlock');  
*const* blocksContainer = document.querySelector('.*table\_\_div\_blocks\_container*');  
  
  
buttonNewBlock.addEventListener('click', () => {  
 *const* block = document.createElement('div');  
 *const* color = *generateRandomColor*();  
  
 block.classList.add('div\_blocks\_container\_\_block');  
 block.style.backgroundColor = '#' + color;  
  
 blocksContainer.appendChild(block);  
 *setEventsToBlocks*();  
});

***Результат програми:***



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***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">  
 <table *class*="button\_section\_\_table">  
 <tr *class*="table\_\_header">  
 <td>  
 <div *class*="header\_\_div\_colors">  
 <div *class*="div\_colors\_\_div\_color" *value*="red"></div>  
 <div *class*="div\_colors\_\_div\_color" *value*="green"></div>  
 <div *class*="div\_colors\_\_div\_color" *value*="blue"></div>  
 <div *class*="div\_colors\_\_div\_color" *value*="pink"></div>  
 <div *class*="div\_colors\_\_div\_color" *value*="yellow"></div>  
 <div *class*="div\_colors\_\_div\_color" *value*="orange"></div>  
 </div>  
 </td>  
 <td>  
 <div *class*="header\_\_div\_font\_styles">  
 <div *class*="div\_font\_styles\_\_div\_font\_style" *value*="B">B</div>  
 <div *class*="div\_font\_styles\_\_div\_font\_style" *value*="I">I</div>  
 <div *class*="div\_font\_styles\_\_div\_font\_style" *value*="U">U</div>  
 </div>  
 </td>  
 <td>  
 <div *class*="header\_\_div\_font\_size">  
 <input *type*="text" *name*="textFontSize" *id*="textFontSize" *class*="div\_font\_size\_\_text\_font\_size" *value*="14">  
 </div>  
 </td>  
 <td>  
 <div *class*="header\_\_div\_fonts">  
 <select *name*="fonts" *id*="fonts" *class*="div\_fonts\_\_select\_fonts">  
 <option *value*="Arial">Arial</option>  
 <option *value*="Times New Roman">Times New Roman</option>  
 <option *value*="Serif">Serif</option>  
 <option *value*="Verdana">Verdana</option>  
 <option *value*="Calibri">Calibri</option>  
 </select>  
 </div>  
 </td>  
 </tr>  
 <tr *class*="table\_\_body">  
 <td *colspan*="4">  
 <div *class*="body\_\_div\_input">  
 <p *id*="pInput" *class*="div\_input\_\_p\_input">  
 <span>  
 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus delectus iste reprehenderit vel voluptatum! Accusamus asperiores cumque  
 ipsa libero molestiae officia, tempore velit voluptatibus! Amet illo ipsam rem tenetur veritatis.  
 </span>  
 <span>  
 A ad alias aliquid assumenda, consequuntur debitis doloribus, error inventore ipsum iure laboriosam laudantium maiores maxime nesciunt nisi  
 officia praesentium recusandae voluptas. Doloremque doloribus facilis, labore laborum pariatur qui unde.  
 </span>  
 </p>  
 </div>  
 </td>  
 </tr>  
 </table>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_9.js"></script>  
</div>  
</body>  
</html>

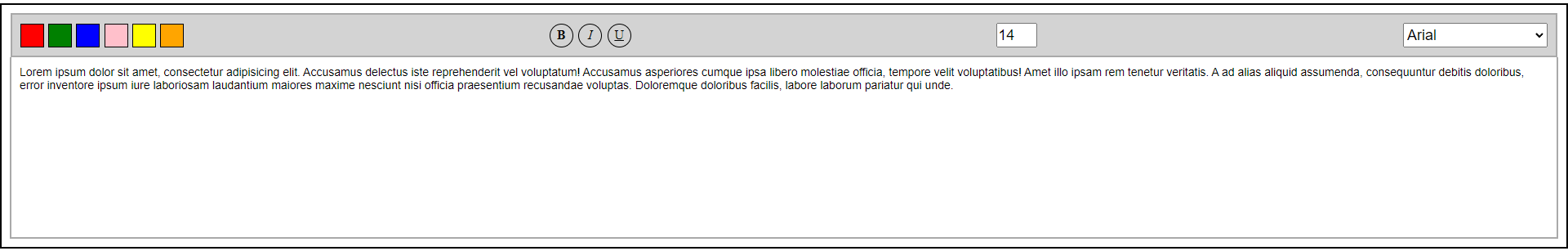
* ***SASS:***

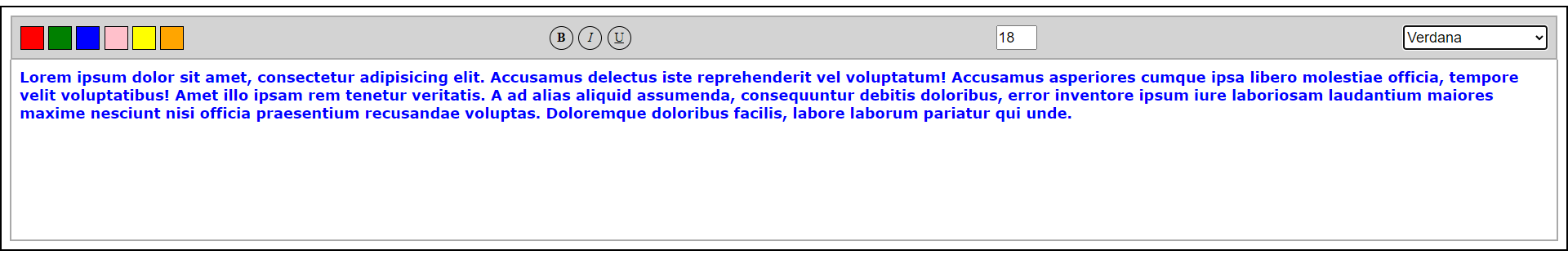
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
body  
 overflow: hidden  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 padding: 10px  
 max-width: 100vw  
  
.*button\_section\_\_table* border-collapse: collapse  
  
.*table\_\_header* background-color: lightgrey  
 border: 2px solid darkgrey  
 display: flex  
 justify-content: space-between  
 align-items: center  
  
.*header\_\_div\_colors* display: flex  
 flex-direction: row  
 justify-content: space-between  
 align-items: center  
 width: 200px  
 height: 50px  
 margin: 0 10px  
  
.*div\_colors\_\_div\_color* width: 29px  
 height: 29px  
 border: 1px solid black  
 cursor: pointer  
  
.*header\_\_div\_font\_styles* display: flex  
 justify-content: space-between  
 width: 100px  
 margin: 0 10px  
  
.*div\_font\_styles\_\_div\_font\_style* display: flex  
 align-items: center  
 justify-content: center  
 width: 29px  
 height: 29px  
 border: 1px solid black  
 border-radius: 50%  
 cursor: pointer  
  
 &:*nth-child*(1)  
 font-weight: bold  
  
 &:*nth-child*(2)  
 font-style: italic  
  
 &:*nth-child*(3)  
 text-decoration: underline  
  
.*header\_\_div\_font\_size* margin: 0 10px  
  
.*div\_font\_size\_\_text\_font\_size* width: 50px  
 height: 30px  
 font-size: 18px  
  
.*header\_\_div\_fonts* margin: 0 10px  
  
.*div\_fonts\_\_select\_fonts* height: 30px  
 font-size: 18px  
 cursor: pointer  
  
.*table\_\_body* border-bottom: 2px solid darkgrey  
 border-left: 2px solid darkgrey  
 border-right: 2px solid darkgrey  
  
.*body\_\_div\_input* padding: 10px  
  
.*div\_input\_\_p\_input* width: 100%  
 height: 200px  
 font-family: Arial, serif  
 font-size: 14px

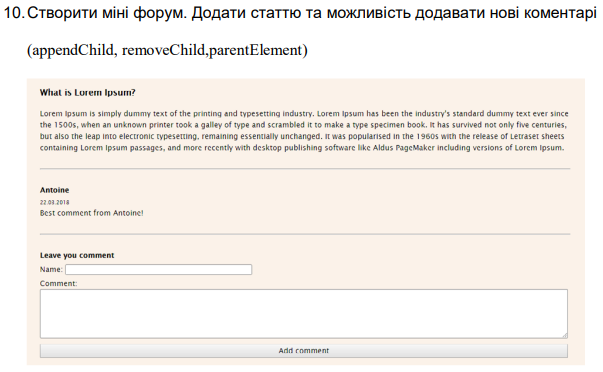
* ***JS:***

'use strict';  
  
*const* divColorBlocks = document.querySelectorAll('.*div\_colors\_\_div\_color*');  
*for* (*let* i = 0; i < divColorBlocks.length; i++) {  
 divColorBlocks[i].style.backgroundColor = divColorBlocks[i].getAttribute('value');  
}  
  
*const* pInput = document.querySelector('#pInput');  
  
*for* (*let* i = 0; i < divColorBlocks.length; i++) {  
 divColorBlocks[i].addEventListener('click', (*event*) => {  
 pInput.style.color = *event*.target.getAttribute('value');  
 });  
}  
  
*const* fontStyles = document.querySelectorAll('.*div\_font\_styles\_\_div\_font\_style*');  
*for* (*let* i = 0; i < fontStyles.length; i++) {  
 fontStyles[i].addEventListener('click', (*event*) => {  
 *const* target = *event*.target;  
  
 *if* (target.getAttribute('value') === 'B') {  
 *if* (pInput.style.getPropertyValue('font-weight')) {  
 pInput.style.removeProperty('font-weight');  
 } *else* {  
 pInput.style.fontWeight = 'bold';  
 }  
 }  
  
 *if* (target.getAttribute('value') === 'I') {  
 *if* (pInput.style.getPropertyValue('font-style')) {  
 pInput.style.removeProperty('font-style');  
 } *else* {  
 pInput.style.fontStyle = 'italic';  
 }  
 }  
  
 *if* (target.getAttribute('value') === 'U') {  
 *if* (pInput.style.getPropertyValue('text-decoration')) {  
 pInput.style.removeProperty('text-decoration');  
 } *else* {  
 pInput.style.textDecoration = 'underline';  
 }  
 }  
 });  
}  
  
*const* textFontSize = document.querySelector('#textFontSize');  
textFontSize.addEventListener('change', () => {  
 *const* fontValue = *parseInt*(textFontSize.value);  
 *if* (fontValue <= 28)  
 pInput.style.fontSize = textFontSize.value + 'px';  
});  
  
*const* fonts = document.querySelector('#fonts');  
fonts.addEventListener('change', () => {  
 pInput.style.fontFamily = fonts.value;  
});

***Результат програми:***

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***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>  
<div *class*="wrapper">  
 <div *class*="container">  
 <section *class*="button\_section">  
 <div *class*="button\_section\_\_div\_post">  
 <div *class*="div\_post\_\_head">  
 <div *class*="head\_\_title">Lorem ipsum</div>  
 </div>  
 <div *class*="div\_post\_\_body">  
 <p *class*="body\_\_paragraph">  
 <span>  
 Lorem ipsum dolor sit amet, consectetur adipisicing elit. Accusamus amet commodi consequatur cum dolor dolorum earum, est eveniet laboriosam nemo  
 nostrum nulla omnis optio placeat quas quo, reprehenderit saepe soluta!  
 </span>  
 </p>  
 </div>  
 </div>  
 <div *class*="button\_section\_\_div\_comment">  
 <div *class*="div\_comment\_\_head">  
 <div *class*="head\_\_author">Andy Raccoon</div>  
 <div *class*="head\_\_comment\_time">22.10.2022</div>  
 </div>  
 <div *class*="div\_comment\_\_body">  
 <p *class*="body\_\_paragraph">  
 The best post I have ever seen!  
 </p>  
 </div>  
 </div>  
 <hr *class*="button\_section\_\_hr">  
 <div *class*="button\_section\_\_div\_leave\_comment">  
 <div *class*="div\_leave\_comment\_\_head">  
 <div *class*="head\_\_title">Leave comment</div>  
 </div>  
 <div *class*="div\_leave\_comment\_\_body">  
 <div *class*="body\_div\_input\_name">  
 <label *for*="textName" *id*="labelName" *class*="div\_input\_name\_\_label\_name">Name:</label>  
 <input *type*="text" *name*="textName" *id*="textName" *class*="div\_input\_name\_\_text\_name" *required*>  
 </div>  
 <div *class*="body\_\_div\_input\_comment">  
 <label *for*="textareaComment" *id*="labelComment" *class*="div\_input\_comment\_\_label\_comment">Comment:</label>  
 <textarea *name*="textareaComment" *id*="textareaComment" *class*="div\_input\_comment\_\_textarea\_comment" *required*></textarea>  
 </div>  
 </div>  
 <div *class*="div\_leave\_comment\_\_foot">  
 <div *class*="foot\_\_div\_button\_add\_comment">  
 <input *type*="button" *value*="Add comment" *id*="buttonAddComment" *class*="div\_button\_add\_comment\_\_button">  
 </div>  
 </div>  
 </div>  
 </section>  
 </div>  
  
 <script *src*="./js/task\_10.js"></script>  
</div>  
</body>  
</html>

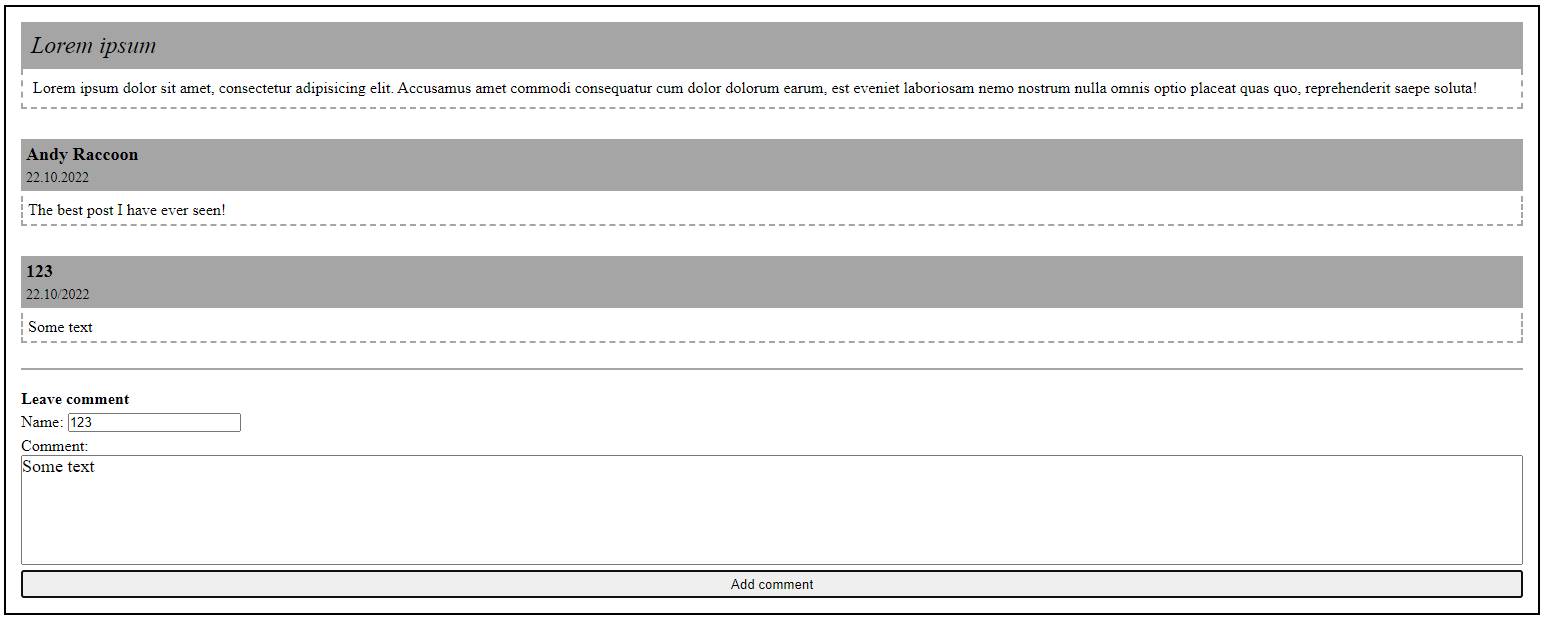
* ***SASS:***

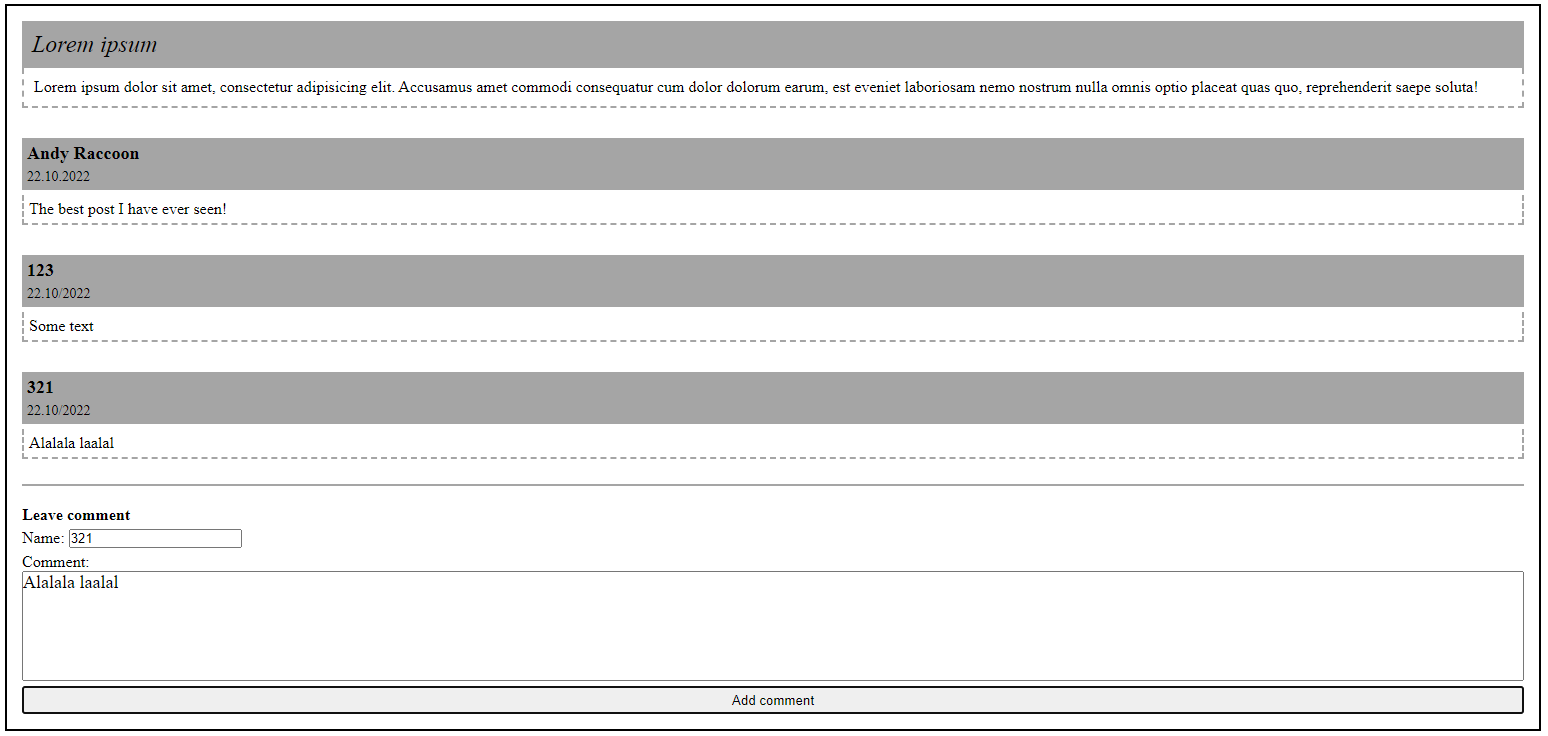
\*  
 margin: 0  
 padding: 0  
 box-sizing: border-box  
  
.*wrapper* width: 100%  
 height: 100vh  
 display: flex  
 align-items: center  
 flex-direction: column  
  
.*button\_section* border: 2px solid black  
 margin: 10px 0  
 width: 80vw  
 display: flex  
 flex-direction: column  
  
.*button\_section\_\_div\_post*, .*button\_section\_\_div\_comment* width: 100%  
 padding: 15px  
  
.*div\_post\_\_head* background-color: #a5a5a5  
 font-style: italic  
 font-size: 24px  
 display: flex  
 justify-content: space-between  
  
.*div\_post\_\_body*, .*div\_comment\_\_body* border-bottom: 2px dashed #a5a5a5  
 border-left: 2px dashed #a5a5a5  
 border-right: 2px dashed #a5a5a5  
  
.*div\_post\_\_head*, .*div\_post\_\_body* padding: 10px  
  
.*div\_comment\_\_head* background-color: #a5a5a5  
 padding: 5px  
 margin-bottom: 5px  
  
 .*head\_\_author* font-weight: bold  
 font-size: 18px  
 margin-bottom: 5px  
  
 .*head\_\_comment\_time* font-size: 14px  
  
.*div\_comment\_\_body* padding: 5px  
 font-size: 16px  
  
.*button\_section\_\_hr* margin: 10px 15px 0 15px  
 border: 1px solid #a5a5a5  
  
.*button\_section\_\_div\_leave\_comment* padding: 15px  
  
 .*div\_leave\_comment\_\_head* margin: 5px 0  
  
 .*head\_\_title* font-weight: bold  
  
 .*div\_leave\_comment\_\_body* .*body\_div\_input\_name* margin: 5px 0  
  
 .*body\_\_div\_input\_comment* display: flex  
 flex-direction: column  
 margin-bottom: 5px  
  
 .*div\_input\_comment\_\_textarea\_comment* resize: none  
 height: 110px  
 font-size: 18px  
 font-family: "Times New Roman", serif  
  
 .*foot\_\_div\_button\_add\_comment* .*div\_button\_add\_comment\_\_button* width: 100%  
 height: 28px

* ***JS:***

'use strict';  
  
*const getTodayDate* = () => {  
 *const* today = *new* Date();  
 *const* dd = *String*(today.getDate()).padStart(2, '0');  
 *const* mm = *String*(today.getMonth() + 1).padStart(2, '0');  
 *const* yyyy = today.getFullYear();  
 *return* dd + '.' + mm + '/' + yyyy;  
}  
  
*const createComment* = (*author*, *comment*) => {  
 *const* divComment = document.createElement('div');  
 divComment.classList.add('button\_section\_\_div\_comment');  
 *const* divCommentHead = document.createElement('div');  
 divCommentHead.classList.add('div\_comment\_\_head');  
 *const* divHeadAuthor = document.createElement('div');  
 divHeadAuthor.classList.add('head\_\_author');  
 divHeadAuthor.innerHTML = *author*;  
 *const* divHeadCommentTime = document.createElement('div');  
 divHeadCommentTime.classList.add('head\_\_comment\_time');  
 divHeadCommentTime.innerHTML = *getTodayDate*();  
 *const* divCommentBody = document.createElement('div');  
 divCommentBody.classList.add('div\_comment\_\_body');  
 *const* paragraphBody = document.createElement('p');  
 paragraphBody.classList.add('body\_\_paragraph');  
 paragraphBody.innerHTML = *comment*;  
  
 divCommentHead.appendChild(divHeadAuthor);  
 divCommentHead.appendChild(divHeadCommentTime);  
 divCommentBody.appendChild(paragraphBody);  
 divComment.appendChild(divCommentHead);  
 divComment.appendChild(divCommentBody);  
  
 *const* hr = document.querySelector('.*button\_section\_\_hr*');  
 hr.parentNode.insertBefore(divComment, hr);  
};  
  
*const* buttonAddComment = document.querySelector('#buttonAddComment');  
*const* textName = document.querySelector('#textName');  
*const* textareaComment = document.querySelector('#textareaComment');  
  
buttonAddComment.addEventListener('click', () => {  
 *const* nameValue = textName.value;  
 *const* commentValue = textareaComment.value;  
  
 *createComment*(nameValue, commentValue);  
});

***Результат програми:***





***Репозиторій лабораторної роботи:***

* https://github.com/AndriiBabushko/Frontend

***Висновок:*** під час виконання лабораторної роботи було отримано навички обробки подій, додавання, видалення класів з тегів, створення та видалення тегів в мові JavaScript.