

## Завдання 2

```
const swapButton = document.querySelector(".swap-button");
const swapInput1 = document.querySelector(".swap-input-1");
const swapInput2 = document.querySelector(".swap-input-2");

swapButton.addEventListener("click", () => {
  const temp = swapInput1.value;
  swapInput1.value = swapInput2.value;
  swapInput2.value = temp;
});
```

## Завдання 4

```
const resizingDiv = document.querySelector(".resizing");
const increaseBtn = document.querySelector(".increase");
const decreaseBtn = document.querySelector(".decrease");

let size = 15;

increaseBtn.addEventListener("click", () => {
  size += 15;
  resizingDiv.style.width = size + "px";
  resizingDiv.style.height = size + "px";
});

decreaseBtn.addEventListener("click", () => {
  if (size <= 15) {
    return;
  }
  size -= 15;
  resizingDiv.style.width = size + "px";
  resizingDiv.style.height = size + "px";
});
```

## Завдання 6

```
const numbers = [1, 4, 8, 16, 20, 30];

const listOfNumbers = document.querySelector(".numbers");
const doubleButton = document.querySelector(".double");

const list = numbers.map((number) => {
  const li = document.createElement("li");
  li.textContent = number;
  li.classList.add("item");
  return li;
});

listOfNumbers.append(...list);

doubleButton.addEventListener("click", () => {
```

```

const items = listOfNumbers.querySelectorAll("li");

items.forEach((item) => {
    const currentValue = parseInt(item.textContent, 10);
    item.textContent = currentValue * 2;
});
});

```

## Завдання 7

```

const numberOfCategories = document.querySelectorAll("li.item");
console.log("Number of categories:", numberOfCategories.length);

const listOfCategories = document.querySelectorAll(".item");
listOfCategories.forEach(function (listOfCategories) {
    const nameOfCategory = listOfCategories.querySelector("h2");
    console.log("Category:", nameOfCategory.textContent);

    const numberOfElements = listOfCategories.querySelectorAll("li");
    console.log("Elements:", numberOfElements.length);
});

```

## Завдання 8

```

const loginForm = document.querySelector(".login-form");

loginForm.addEventListener("submit", (event) => {
    event.preventDefault();
    const { email } = event.target.elements;
    const { password } = event.target.elements;

    const data = {
        email: email.value.trim(),
        password: password.value.trim(),
    };

    if (email.value === "" || password.value === "") {
        alert("All form fields must be filled in!");
    } else {
        console.log(data);
        loginForm.reset();
    }
});

```

## Завдання 9

```

function getRandomHexColor() {
    return `#${Math.floor(Math.random() *
16777215)
.toString(16)
.padStart(6, 0)}`;

```

```

});

const bodyRef = document.querySelector("body");
const btnRef = document.querySelector(".change-color");
const spanRef = document.querySelector(".color");

btnRef.addEventListener("click", () => {
  const randomHexColor = getRandomHexColor();
  bodyRef.style.backgroundColor = randomHexColor;
  spanRef.textContent = randomHexColor;
});

```

## Завдання 10

```

function getRandomHexColor() {
  return `#${Math.floor(Math.random() *
16777215)
.toString(16)
.padStart(6, 0)}`;
};

const input = document.querySelector(".number-input");
const createButton = document.querySelector("[data-create]");
const destroyButton = document.querySelector("[data-destroy]");
const boxesContainer = document.querySelector("#boxes");

function createBoxes(amount) {
  boxesContainer.innerHTML = "";
  if (amount < 1 || amount > 100 || amount == 0) {
    alert("Введіть число від 1 до 100!");
    return;
  }

  let size = 30;
  const fragment = document.createDocumentFragment();

  for (let i = 0; i < amount; i++) {
    const box = document.createElement("div");
    box.classList.add("box");
    box.style.width = `${size}px`;
    box.style.height = `${size}px`;
    box.style.backgroundColor = getRandomHexColor();
    fragment.appendChild(box);
    size += 10;
  }

  boxesContainer.appendChild(fragment);
  input.value = "";
}

function destroyBoxes() {
  boxesContainer.innerHTML = "";
}

```

```
}  
  
createButton.addEventListener("click", () => {  
    const amount = parseInt(input.value, 10);  
    createBoxes(amount);  
});  
  
destroyButton.addEventListener("click", destroyBoxes);
```