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<b>Przedmiot</b>	Skryptowe języki programowania		
<b>Prowadzący</b>	mgr inż. Martyna Tarczewska		
<b>Temat</b>	JavaScript - formularze		
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<b>Nr ćw.</b>	12	<b>Data wykonania</b>	08.01.2024
<b>Ocena</b>		<b>Data oddania spr.</b>	09.01.2024

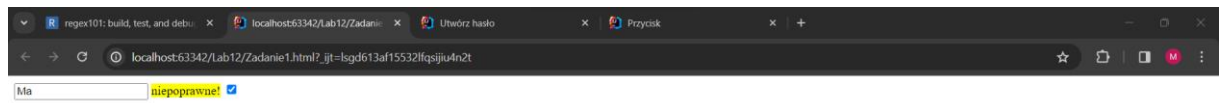
## Zadanie 1

```

<html lang="pl-PL">
<head>
  <meta charset="UTF-8">
</head>
<body>
<form name='formularz'>
  <input type='text' name='tekst' id="textfield" onkeyup="validateText()">
  <label id="valLabel"></label>
  <input type="checkbox" name="zaznacz" onchange="validateCheckBox()" />
</form>
<script>
  function validateText() {
    var val1 = document.forms["formularz"].tekst.value;
    var val2 = document.getElementById("textfield").value;
    var label = document.getElementById("valLabel");
    const reg = /^[a-zA-Z]{3,}$/g; //regex :D
    if (!reg.test(val1))
      label.innerHTML = "niepoprawne!"
    else
      label.innerHTML = ""
  }
  function validateCheckBox() {
    var label = document.getElementById("valLabel");
    if (document.forms.formularz.elements["zaznacz"].checked) {
      label.style.backgroundColor="#ffff00";
    } else {
      label.style.backgroundColor="#ffffff";
    }
  }
</script>

```

```
</body>
</html>
```



Kod sprawdza tekst wpisany w pole tekstowe formularza. Kiedy tekst jest krótszy niż 3 znaki, wypisuje obok komunikat „niepoprawne!”. Jeżeli zaznaczymy kwadracik obok pola tekstowego, to komunikat błędu będzie miał żółte tło.

## Zadanie 2

```
<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Utwórz hasło</title>
  <style>
    .password-mismatch {
      color: red;
    }
  </style>
</head>
<body>
<h1>Podaj nowe hasło; musi ono zawierać minimum 8 liter i jedną cyfrę bez
żadnych znaków specjalnych.</h1>
<form id="passwordForm">
  <label for="password1">Hasło:</label>
  <input type="password" id="password1" name="password1"
onkeyup="checkPasswords()">
  <br>
```

```
<label for="password2">Powtórz hasło:</label>
<input type="password" id="password2" name="password2"
onkeyup="checkPasswords()">
<br>

<button type="button" onclick="checkPasswordValidity()">Check
Passwords</button>
</form>

<script>
function checkPasswords() {
    var password1 = document.getElementById('password1').value;
    var password2 = document.getElementById('password2').value;

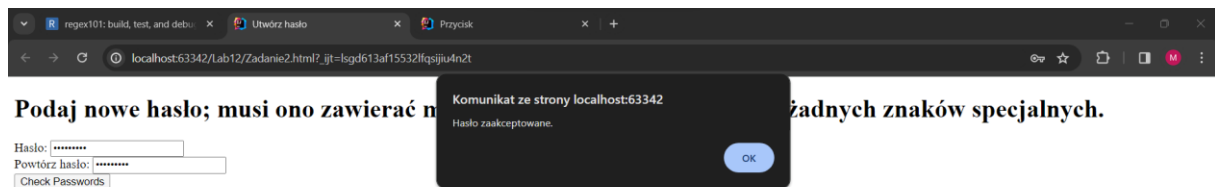
    var passwordMismatch = password1 !== password2;

    if (passwordMismatch) {
        document.getElementById('passwordForm').classList.add('password-
mismatch');
    } else {
        document.getElementById('passwordForm').classList.remove('password-
mismatch');
    }
}

function checkPasswordValidity() {
    var password1 = document.getElementById('password1').value;
    var password2 = document.getElementById('password2').value;

    var passwordMismatch = password1 !== password2;
    var isValidPassword = /^(?=.*[A-Za-z])(?=.*\d)[A-Za-
z\d]{8,}$/ .test(password1);

    if (!isValidPassword || passwordMismatch) {
        alert('Hasło nie spełnia wymagań, bądź podane hasła są różne!');
    } else {
        alert('Hasło zaakceptowane.');
```



### Zadanie 3

```
<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Przycisk</title>
  <style>
    #myButton {
      padding: 10px;
      font-size: 16px;
    }
  </style>
</head>
<body>

<button id="myButton"
  onmousedown="handleMouseDown()"
  onmouseup="handleMouseUp()"
  onmouseover="handleMouseOver()"
  onmouseout="handleMouseOut()">
  Click me!
</button>
<h1 id="actionLabel">Kursor poza przyciskiem</h1>

<script>

  function handleMouseDown() {
    actionLabel.innerText = "Przycisk wciśnięty";
  }
```

```

function handleMouseUp() {
    actionLabel.innerText = "Przycisk odpuszczony";
}

function handleMouseOver() {
    actionLabel.innerText = "Kursor nad przyciskiem";
}

function handleMouseOut() {
    actionLabel.innerText = "Kursor poza przyciskiem";
}
</script>

</body>
</html>

```



**Kursor poza przyciskiem**

## Zadanie 4

```

<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Nagłówek</title>
  <style>
    #myHeader {
      color: black;
    }

    #myHeader:hover {
      color: red;
    }
  </style>

```

```
    }  
    </style>  
</head>  
<body>  
  
<h1 id="myHeader">Nagłówek</h1>  
  
</body>  
</html>
```



**Nagłówek**

## Zadanie 5

```
<!DOCTYPE html>  
<html lang="pl">  
<head>  
    <meta charset="UTF-8">  
    <meta name="viewport" content="width=device-width, initial-scale=1.0">  
    <title>Number Converter</title>  
</head>  
<body>  
  
<form id="numberConverterForm">  
    <label for="numberInput">Podaj liczbę:</label>  
    <input type="number" id="numberInput" name="numberInput" min="0">  
  
    <label for="conversionType">Wybierz system:</label>  
    <select id="conversionType" name="conversionType">  
        <option value="dec2bin">Dziesiętny na binarny</option>  
        <option value="bin2dec">Binarny na dziesiętny</option>  
    </select>  
  
    <button type="button" onclick="convertNumber()">Konwertuj</button>
```

```

    <p id="result">Wynik: </p>
</form>

<script>
    function convertNumber() {
        var numberInput = document.getElementById('numberInput').value;
        var conversionType = document.getElementById('conversionType').value;
        var resultElement = document.getElementById('result');

        if (conversionType === 'dec2bin') {
            var binaryResult = decimalToBinary(numberInput);
            resultElement.textContent = 'Wynik: ' + binaryResult;
        } else if (conversionType === 'bin2dec') {
            var decimalResult = binaryToDecimal(numberInput);
            resultElement.textContent = 'Wynik: ' + decimalResult;
        }
    }

    function decimalToBinary(decimalNumber) {
        return (decimalNumber >>> 0).toString(2);
    }

    function binaryToDecimal(binaryNumber) {
        return parseInt(binaryNumber, 2).toString(10);
    }
</script>

</body>
</html>

```



## Zadanie 6

```
<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Obrazek</title>
</head>
<body>

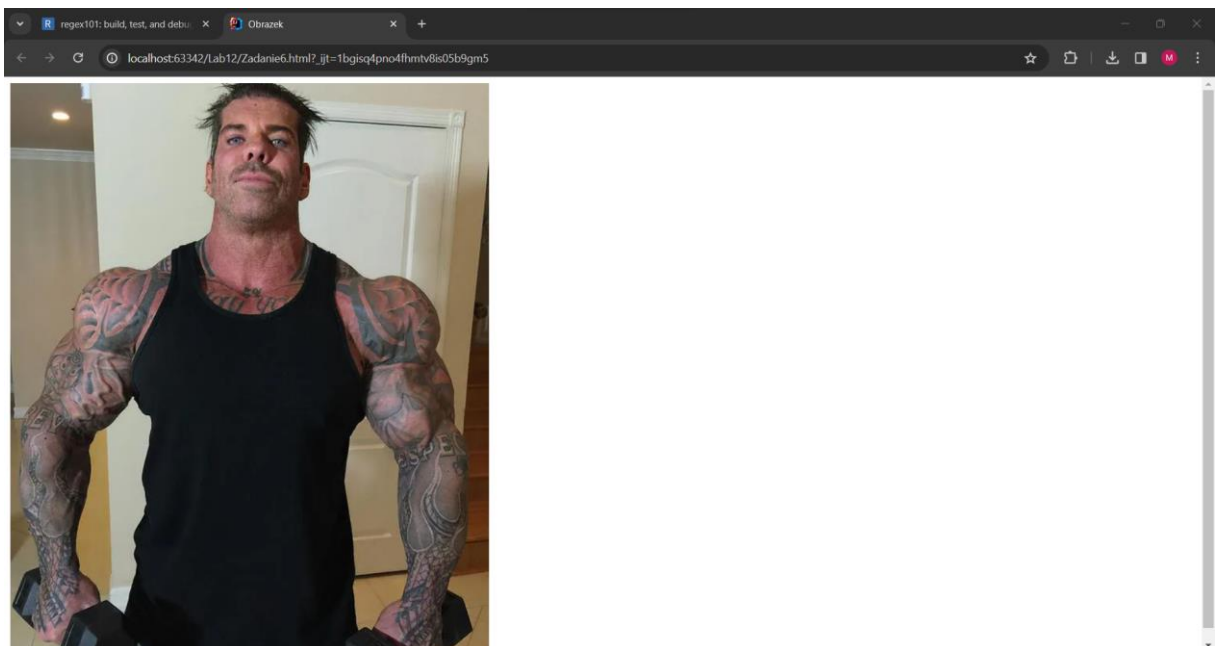


<script>
  var imageElement = document.getElementById('myImage');

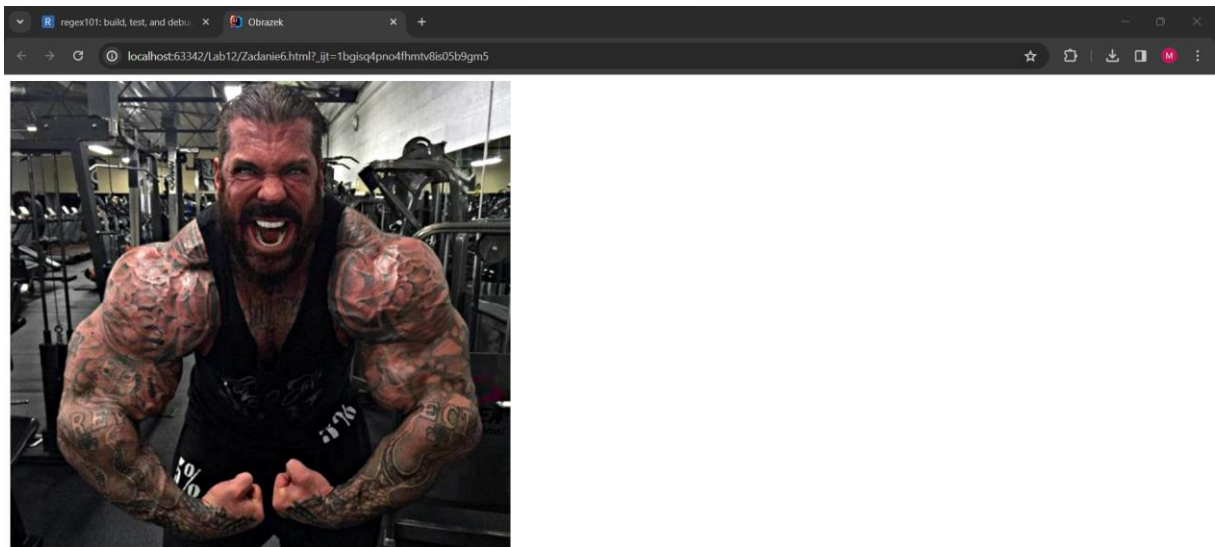
  imageElement.addEventListener('mouseover', function() {
    imageElement.src = 'obrazek2.png';
  });

  imageElement.addEventListener('mouseout', function() {
    imageElement.src = 'obrazek1.png';
  });
</script>

</body>
</html>
```







## Zadanie 7

```
<!DOCTYPE html>
<html lang="pl">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Student</title>
</head>
<body>

<form id="studentForm">
  <label for="firstName">Imię:</label>
  <input type="text" id="firstName" name="firstName" required>
  <br>

  <label for="lastName">Nazwisko:</label>
  <input type="text" id="lastName" name="lastName" required>
  <br>

  <label for="email">Email (w formacie imnaz001@pbs.edu.pl):</label>
  <input type="email" id="email" name="email" pattern="^[a-z]{6}[0-9]{3}@pbs\.edu\.pl$" required>
  <br>

  <button type="button" onclick="validateForm()">Sprawdź poprawność
danych</button>
</form>

<p id="validationResult"></p>

<script>
  function validateForm() {
    var firstName = document.getElementById('firstName').value;
    var lastName = document.getElementById('lastName').value;
```

```

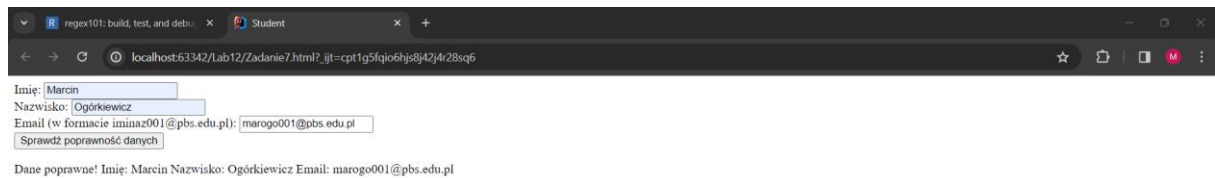
var email = document.getElementById('email').value;
var validationResultElement =
document.getElementById('validationResult');

var regexPattern = /^[a-z]{6}[0-9]{3}@pbs\.edu\.pl$/;

if (regexPattern.test(email)) {
    validationResultElement.textContent = 'Dane poprawne!\nImię: ' +
firstName + '\nNazwisko: ' + lastName + '\nEmail: ' + email;
} else {
    validationResultElement.textContent = 'Błąd walidacji. Sprawdź
poprawność wprowadzonych danych.';
}
}
</script>

</body>
</html>

```



## Wnioski

Zadanie pozwoliło mi na zapoznanie się z obsługą formularzy w języku JavaScript.