

```
1 "use strict";
2
3 document.addEventListener("DOMContentLoaded", () => {
4     keyMapper(1000, () => document.querySelectorAll("*").forEach(function (node) {
5         node.classList.add("rotated")}), "flex");
6 });
7
8 function keyMapper(keystrokeDelay, callback, keySequence) {
9     let buffer = [];
10    let lastKeyTime = Date.now();
11    document.addEventListener("keydown", event => {
12        let charList = "abcdefghijklmnopqrstuvwxyz0123456789";
13        const key = event.key.toLowerCase();
14        if (charList.indexOf(key) === -1) return;
15        let currentTime = Date.now();
16        if (currentTime - lastKeyTime > 1000) buffer = [];
17        buffer.push(key);
18        lastKeyTime = currentTime;
19        if (buffer.join("") === keySequence) callback();
20    })
21 }
```

```
1 "use strict";
2
3 let svg = document.querySelector("svg");
4
5 document.addEventListener("DOMContentLoaded", () => {
6     svg.addEventListener("click", (event) => {
7         if (validateR()) {
8             let position = getMousePosition(svg, event);
9             x = position.x;
10            y = position.y;
11            setPointer(x, y);
12            let k = 270 / r; //отношение радиуса и плоскости
13            x = (x / k).toFixed(1);
14            y = (y / k).toFixed(1);
15            sendRequest("svg");
16        }
17    });
18 });
19
20 function getMousePosition(svg, event) {
21     let rect = svg.getBoundingClientRect();
22     return {
23         x: event.clientX - rect.left,
24         y: event.clientY - rect.top
25     };
26 }
27
28 function setPointer(x, y) {
29     console.log(x + " " + y);
30     svg.insertAdjacentHTML("beforeend", `
```

```

1  "use strict";
2
3  let x, y, r;
4
5  //Обновляет значение x в соответствии с нажатой кнопкой, добавляет ей эффекты (подсветка и
   увеличение), убирая их для остальных кнопок группы.
6  document.addEventListener("DOMContentLoaded", () => {
7      let buttons = document.querySelectorAll("input[name=X-button]");
8      buttons.forEach(click);
9
10     function click(element) {
11         element.onclick = function () {
12             x = this.value;
13             buttons.forEach(function (element) {
14                 element.style.boxShadow = null;
15                 element.style.backgroundColor = null;
16                 element.style.color = null;
17             });
18             this.style.boxShadow = "0 0 40px 5px #f41c52";
19             this.style.backgroundColor = "#f41c52";
20             this.style.color = "white";
21         }
22     }
23 });
24
25 document.getElementById("checkButton").onclick = function () {
26     if (validateX() && validateY() && validateR()) sendRequest("button");
27 };
28
29 //Параметр key устанавливает, тип запроса обработки точки на сервере: "button" - для
   клика по кнопке, "svg" - для клика по канвасу.
30 function sendRequest(key) {
31     const keys = ["button", "svg"];
32     if (keys.includes(key)) {
33         let request = "x=" + encodeURIComponent(x) + "&y=" + encodeURIComponent(y) + "&r"
   =" + encodeURIComponent(r) +
34         "&key=" + encodeURIComponent(key);
35         fetch("app", {
36             method: "POST",
37             headers: {"Content-Type": "application/x-www-form-urlencoded; charset=UTF-8"}
38         },
39             body: request
40         ).then(response => response.text()).then(function (serverAnswer) {
41             document.getElementById("outputContainer").innerHTML = serverAnswer;
42         }).catch(err => createNotification(`Ошибка HTTP ${err.textContent}. Повторите
   попытку позже.`));
43     } else throw new Error("Не указан ключ отправки");
44 }
45
46 function createNotification(message) {
47     let outputContainer = document.getElementById("outputContainer");
48     if (outputContainer.contains(document.querySelector(".notification"))) {
49         let stub = document.querySelector(".notification");
50         stub.textContent = message;
51         stub.classList.replace("outputStub", "errorStub");
52     } else {
53         let notificationTableRow = document.createElement("h4");
54         notificationTableRow.innerHTML = "<span class='notification errorStub'></span>";
55         outputContainer.prepend(notificationTableRow);
56         let span = document.querySelector(".notification");
57         span.textContent = message;
58     }
59 }
60
61 function validateX() {
62     if (isNumeric(x)) return true;
63     else {
64         createNotification("x не выбран");
65         return false;
66     }
67 }
68
69 function validateY() {

```

```
69     y = document.querySelector("input[name=Y-input]").value.replace(",", "."); //замена  
    разделителя дробной части числа  
70     if (y === undefined) {  
71         createNotification("у не введён");  
72         return false;  
73     } else if (!isNumeric(y)) {  
74         createNotification("у не число");  
75         return false;  
76     } else if (!((y > -5) && (y < 3))) {  
77         createNotification("у не входит в область допустимых значений");  
78         return false;  
79     } else return true;  
80 }  
81  
82 function validateR() {  
83     try {  
84         r = document.querySelector("input[type=radio]:checked").value;  
85         return true;  
86     } catch (err) {  
87         createNotification("Значение R не выбрано");  
88         return false;  
89     }  
90 }  
91  
92 function isNumeric(n) {  
93     return !isNaN(parseFloat(n)) && isFinite(n);  
94 }
```

File - V:\TMO\2 course\web-programming\lab2-16.09.19\web\error_page.jsp

```
1 <%@ page contentType="text/html; charset=UTF-8" language="java" %>
2 <!DOCTYPE HTML>
3 <html lang="ru-RU">
4 <head>
5     <meta name="error" content="Ошибка клиента.">
6     <meta name="author" content="Кульбако Артемий Юрьевич">
7     <link href="stylesheets/error_page.css" rel="stylesheet">
8     <link rel="icon" type="image/jpg" href="images/favicon.jpg">
9     <title>Страница не найдена</title>
10 </head>
11 <body>
12     <div id="notfound">
13         <div class="notfound">
14             <div class="notfound-404"><h1>404</h1></div>
15             <h2>Ничего не найдено</h2>
16             <p>Страница, которую вы запрашиваете, отсутствует, проверьте url-
адрес.<br/>
17                 <a href="app">Вернуться на домашнюю страницу</a></p>
18             </div>
19         </div>
20     </body>
21 </html>
```

```

1  <%@ page contentType="text/html; charset=UTF-8" language="java" %>
2  <!DOCTYPE HTML>
3  <html lang="ru-RU">
4  <head>
5    <meta name="description" content="Лабораторная работа №2 по дисциплине веб-
программирование.">
6    <meta name="author" content="Кульбако Артемий Юрьевич">
7    <meta name="keywords" content="ВТ, Лабораторная работа, Веб-программирование, Институт
Тёплых Мужских Отношений"/>
8    <link href="stylesheets/main_page.css" rel="stylesheet">
9    <link href="stylesheets/check_button.css" rel="stylesheet">
10   <link rel="icon" type="image/jpg" href="images/favicon.jpg">
11   <title>Лабораторная №1</title>
12 </head>
13 <body>
14 <header class="shaded animated">
15   <h1>Веб-программирование, Лаб. 2, Вариант 212301</h1>
16   <div id="credit">
17     
18     <a href="https://github.com/testpassword" class="illuminated animated" title="Перейти
к профилю Github разработчика">Кульбако Артемий Юрьевич, Р3212</a>
19   </div>
20 </header>
21 <table id="mainTable" class="shaded">
22   <thead><td colspan="5"><h3>Валидация введённых значений:</h3></td></thead>
23   <tbody>
24     <tr><td colspan="5"><hr></td></tr>
25     <tr>
26       <td rowspan="3">Выберите X:</td>
27       <td><input name="X-button" class="illuminated animated" type="button" value="-2.0"></
td>
28       <td><input name="X-button" class="illuminated animated" type="button" value="-1.5"></
td>
29       <td><input name="X-button" class="illuminated animated" type="button" value="-1.0"></
td>
30       <td rowspan="6">
31         <svg xmlns="http://www.w3.org/2000/svg">
32           <line x1="0" y1="150" x2="300" y2="150" stroke="#000720"></line>
33           <line x1="150" y1="0" x2="150" y2="300" stroke="#000720"></line>
34           <line x1="270" y1="148" x2="270" y2="152" stroke="#000720"></line>
35           <text x="265" y="140">R</text>
36           <text x="200" y="140">R/2</text>
37           <text x="75" y="140">-R/2</text>
38           <text x="20" y="140">-R</text>
39           <text x="156" y="35">R</text>
40           <text x="156" y="95">R/2</text>
41           <text x="156" y="215">-R/2</text>
42           <text x="156" y="275">-R</text>
43           <polygon points="300,150 295,155 295, 145" fill="#000720" stroke="#000720"></
polygon>
44           <polygon points="150,0 145,5 155,5" fill="#000720" stroke="#000720"></polygon
>
45           <rect x="150" y="150" width="120" height="60" fill-opacity="0.4" stroke="navy
" fill="blue"></rect>
46           <polygon points="150,150 90,150 150,90" fill-opacity="0.4" stroke="navy" fill
="blue"></polygon>
47           <path d="M150 150 L 270 150 C 270 80 220 30 150 30 L Z" fill-opacity="0.4"
stroke="navy" fill="blue"></path>
48         </svg>
49       </td>
50     </tr>
51     <tr>
52       <td><input name="X-button" class="illuminated animated" type="button" value="-0.5"></
td>
53       <td><input name="X-button" class="illuminated animated" type="button" value="0"></td>
54       <td><input name="X-button" class="illuminated animated" type="button" value="0.5"></
td>
55     </tr>
56     <tr>
57       <td><input name="X-button" class="illuminated animated" type="button" value="1"></td>
58       <td><input name="X-button" class="illuminated animated" type="button" value="1.5"></
td>
59       <td><input name="X-button" class="illuminated animated" type="button" value="2"></td>

```

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60 </tr>
61 <tr>
62 <td>Введите Y:</td>
63 <td colspan="3"><input required name="Y-input" class="illuminated animated" type="
text" placeholder="значение в промежутке (-5 до 3)" maxlength="6"></td>
64 </tr>
65 <tr>
66 <td rowspan="2">Выберите R:</td>
67 <td>
68 1
69 <input name="R-radio-group" class="illuminated animated" type="radio" value="1"></
td>
70 <td>
71 2
72 <input name="R-radio-group" class="illuminated animated" type="radio" value="2"></
td>
73 <td>
74 3
75 <input name="R-radio-group" class="illuminated animated" type="radio" value="3"></
td>
76 </td>
77 </tr>
78 <tr>
79 <td>
80 4
81 <input name="R-radio-group" class="illuminated animated" type="radio" value="4"></
td>
82 <td>
83 5
84 <input name="R-radio-group" class="illuminated animated" type="radio" value="5"></
td>
85 </tr>
86 <tr>
87 <td colspan="5">
88 <button id="checkButton">Проверить</button>
89 <hr>
90 </td>
91 </tr>
92 </tbody>
93 <tfoot>
94 <tr>
95 <td colspan="5" id="outputContainer"><h4><span class="outputStub notification">
Результаты отсутствуют</span></h4></td>
96 </tr>
97 </tfoot>
98 </table>
99 <footer class="shaded animated">
100 <figure>
101 <a href="https://se.ifmo.ru">
102 
106 </a>
107 <figcaption>2019</figcaption>
108 </figure>
109 </footer>
110 <script src="scripts/validator.js"></script>
111 <script src="scripts/easter_egg.js"></script>
112 <script src="scripts/graph_drawer.js"></script>
113 </body>
114 </html>

```