

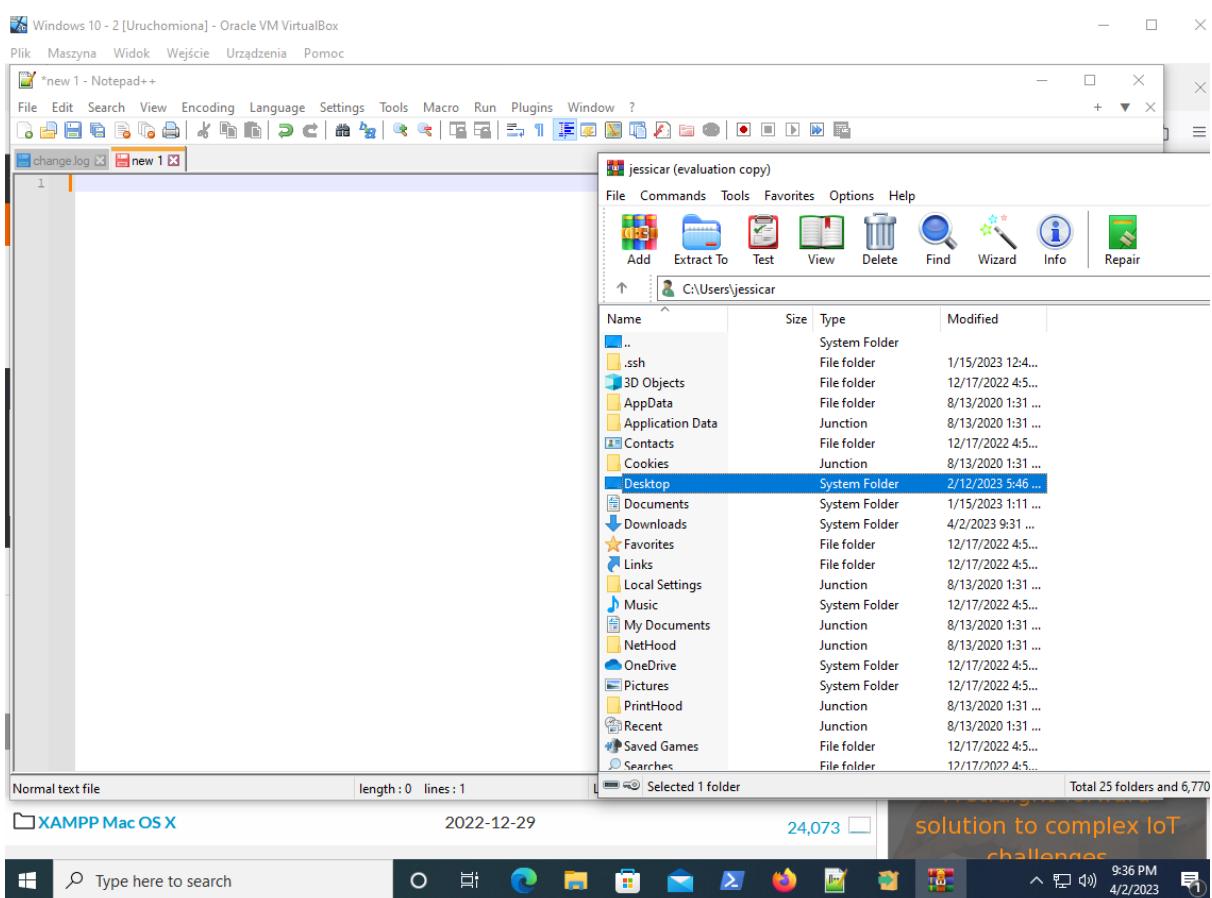
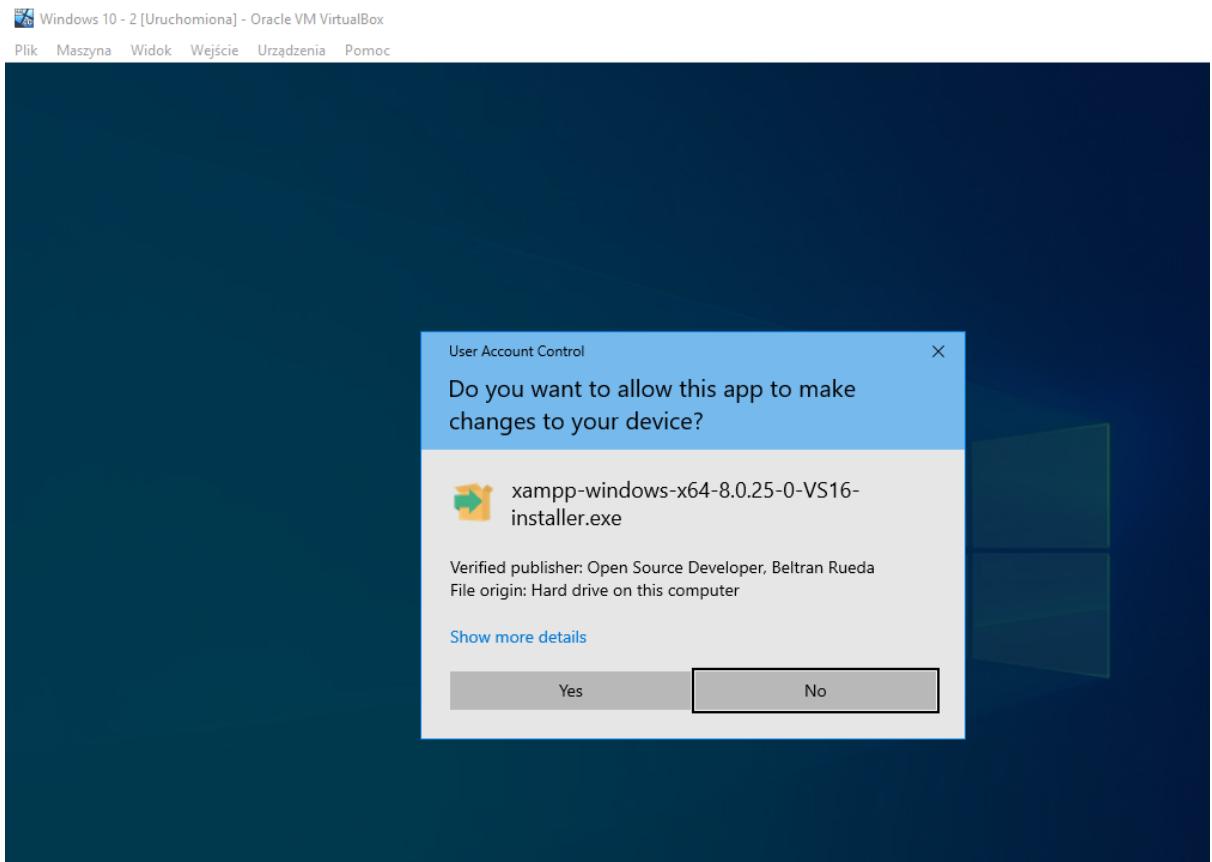
Web Fundamentals - Final Project

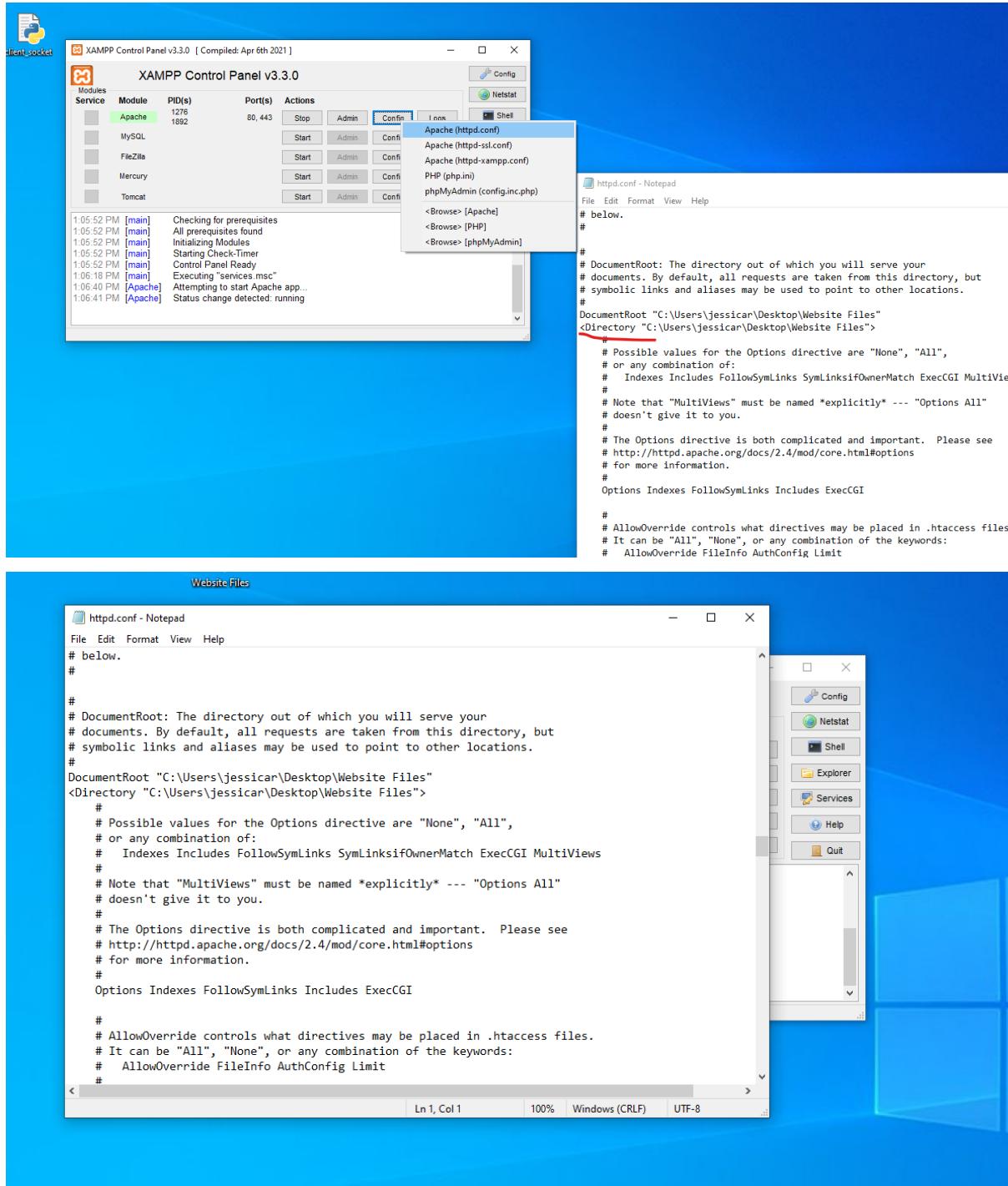
Paweł Kamiński

Global Red Extended Course

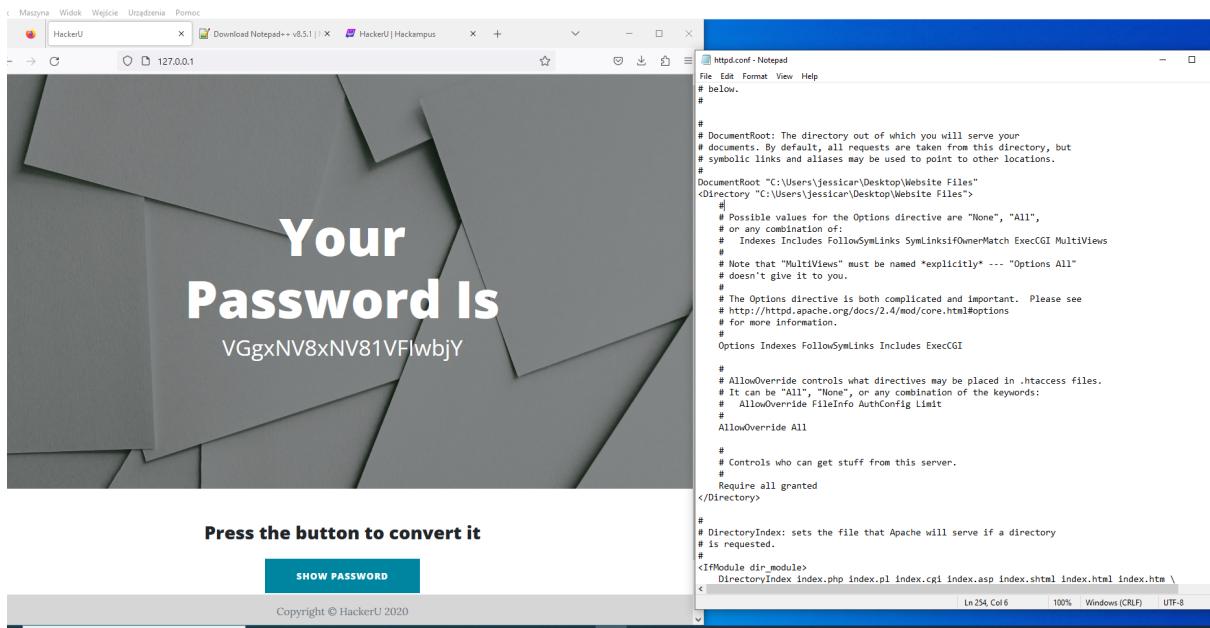
RM270822UW1

Installing and configuring XAMPP

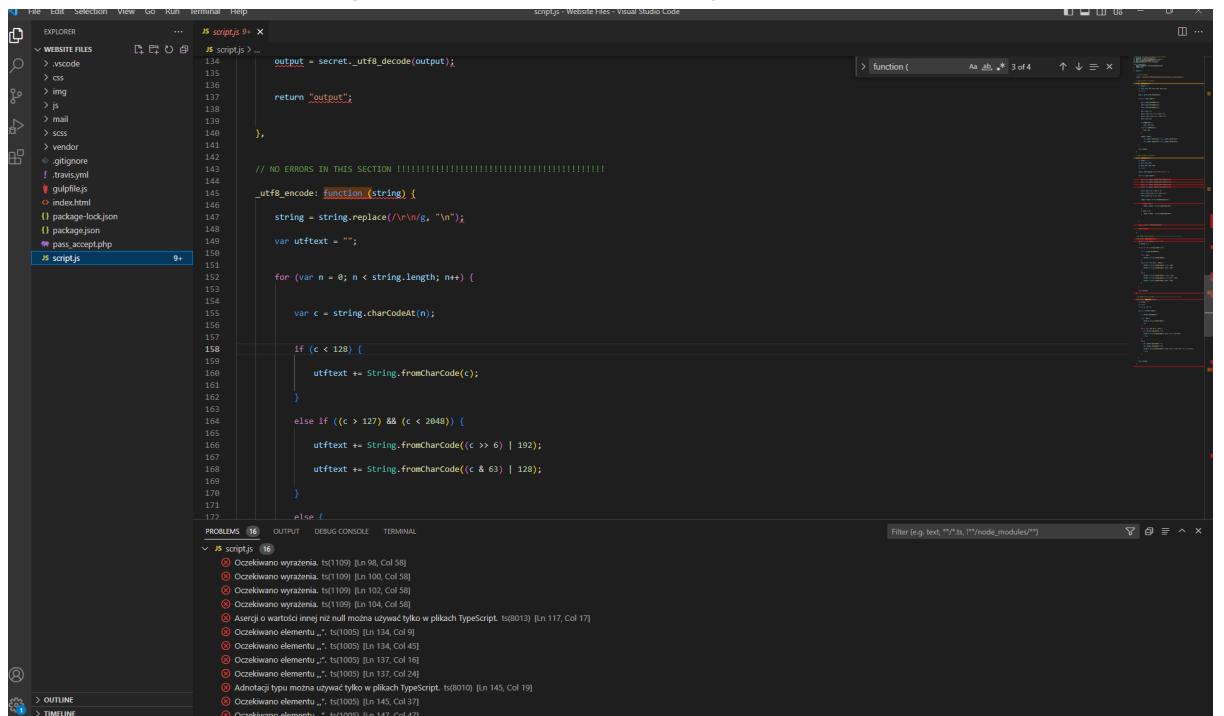




And now the website works fine

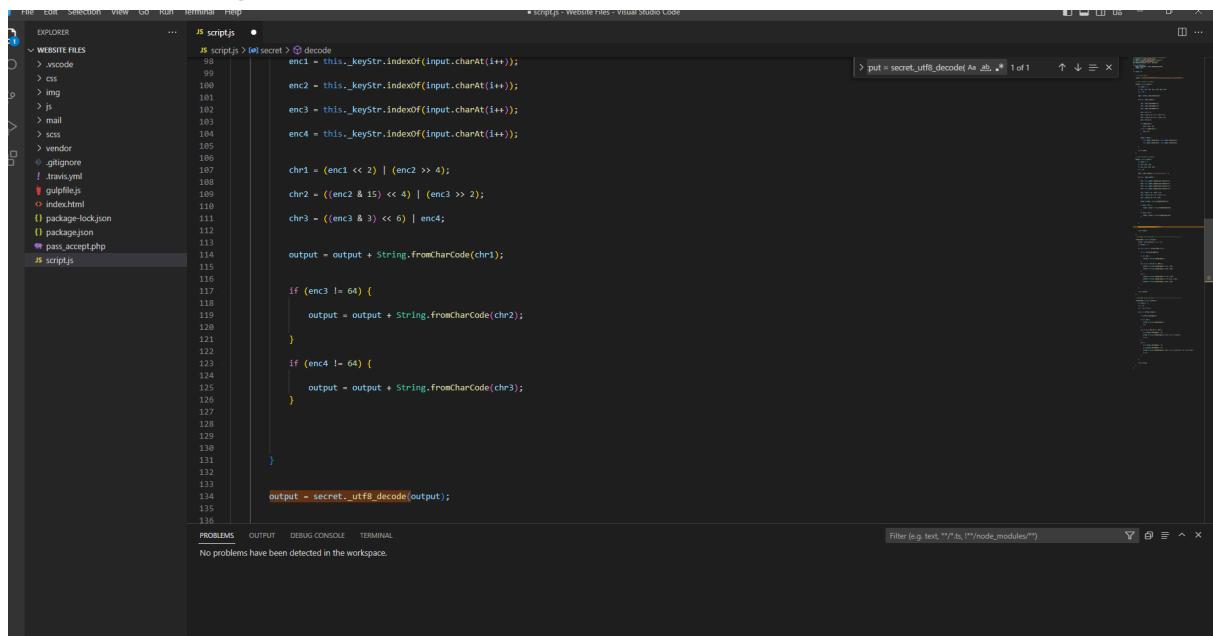


I used VSC to debug problems in script.js and found 16



Most of them were like “ !, +, ; “

After cleaning it looks much better:



A screenshot of Visual Studio Code showing the 'script.js' file. The code has been significantly simplified and cleaned up. The original code was over 1000 lines long, but this version is much shorter and readable. It includes comments explaining the decoding logic. The code is now much more maintainable and easier to understand.

```
script.js
...
// Simplified decoding logic
...
output = secret_utf8_decode(output);
...

```

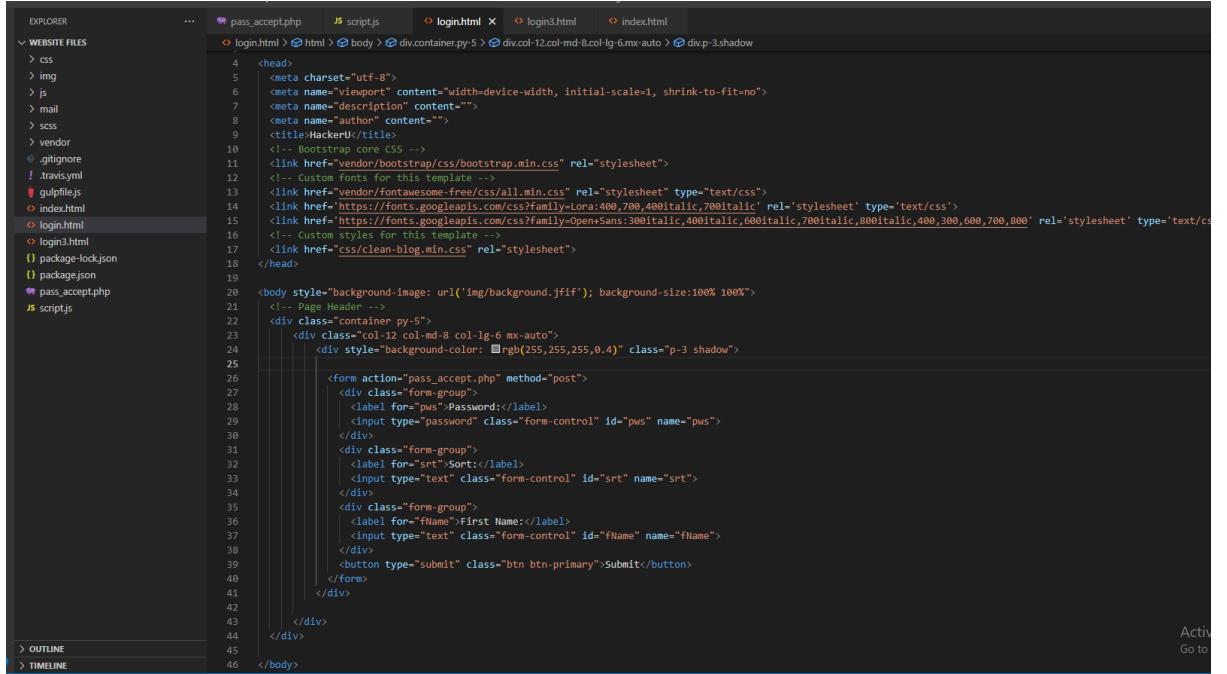
As can we see, it's working:



Press the button to convert it

SHOW PASSWORD

Now we have to create a website:



```
EXPLORER          ...  pass_accept.php  JS script.js  login.html  login3.html  index.html
WEBBSITE FILES
> css
> img
> js
> mail
> scss
> vendor
> .gitignore
! .travis.yml
gulpfile.js
> index.html
> login.html
! package-lock.json
! package.json
pass_accept.php
JS script.js

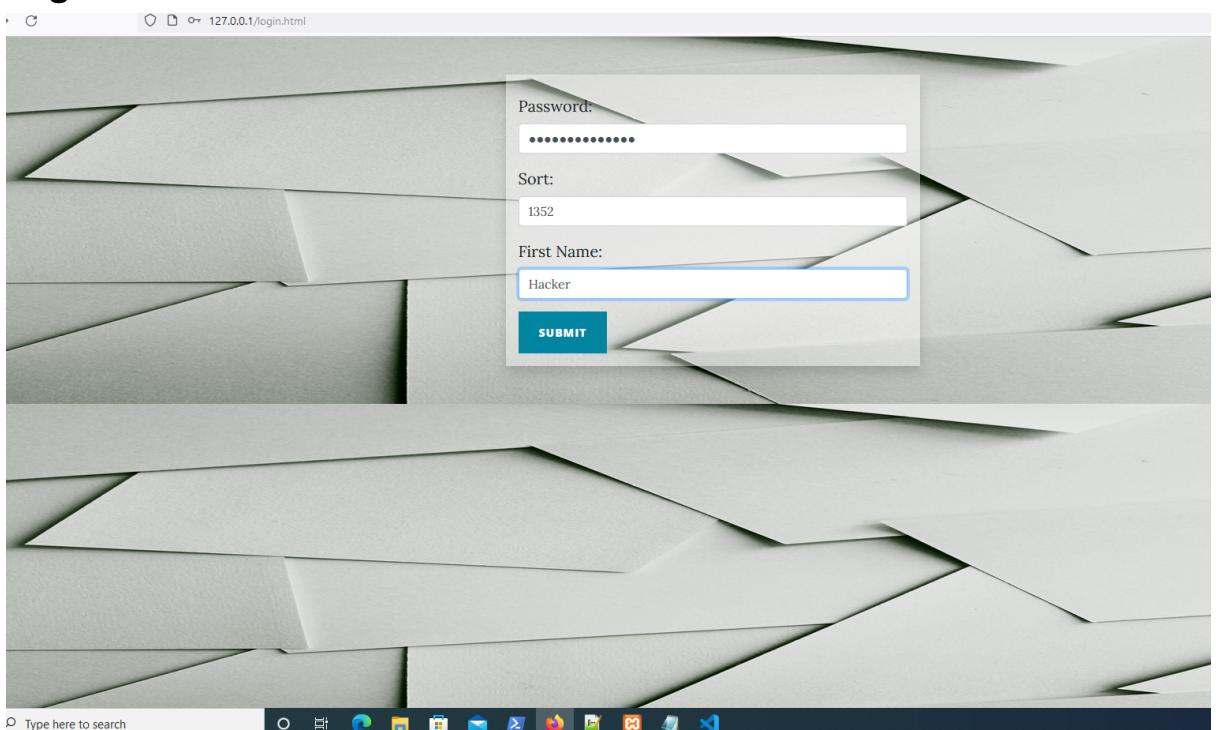
4 <head>
5   <meta charset="utf-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1, shrink-to-fit=no">
7   <meta name="description" content="">
8   <meta name="author" content="">
9   <title>HackerU</title>
10  <!-- Bootstrap core CSS -->
11  <link href="vendor/bootstrap/css/bootstrap.min.css" rel="stylesheet">
12  <!-- Custom fonts for this template -->
13  <link href="vendor/Fontawesome-free/css/all.min.css" rel="stylesheet" type="text/css">
14  <link href="https://fonts.googleapis.com/css?family=Lora:400,700,400italic,700italic" rel="stylesheet" type="text/css">
15  <link href="https://fonts.googleapis.com/css?family=Open+Sans:300italic,800italic,400,300,700,800" rel="stylesheet" type="text/css">
16  <!-- custom styles for this template -->
17  <link href="css/clean-blog.min.css" rel="stylesheet">
18 </head>
19
20 <body style="background-image: url('img/background.jfif'); background-size:100% 100%">
21 <!-- Page Header -->
22 <div class="container py-5">
23   <div class="col-12 col-md-8 col-lg-6 mx-auto" style="background-color: #rgb(255,255,255,0.4)" class="p-3 shadow">
24     <form action="pass_accept.php" method="post">
25       <div class="form-group">
26         <label for="pws">Password:</label>
27         <input type="password" class="form-control" id="pws" name="pws">
28       </div>
29       <div class="form-group">
30         <label for="srt">Sort:</label>
31         <input type="text" class="form-control" id="srt" name="srt">
32       </div>
33       <div class="form-group">
34         <label for="fName">First Name:</label>
35         <input type="text" class="form-control" id="fName" name="fName">
36       </div>
37       <button type="submit" class="btn btn-primary">Submit</button>
38     </form>
39   </div>
40 </div>
41 </div>
42 </div>
43 </div>
44 </div>
45 </body>
```

As can we see we need 3 variables to log in:



```
<div class="col-12 col-md-8 col-lg-6 mx-auto">
<div style="background-color: #rgb(255,255,255,0.4)" class="p-3 shadow">
<?php
if ($_POST["pws"] === base64_decode("VGgxN8xNV81VFIwbjY") && $_POST["srt"] === "1352" && !empty($_POST["fName"])) {
    echo "var div_1 = document.querySelector(\"#d1\");<br>
          var div_2 = document.querySelector(\"#d2\");<br>
          var header = document.querySelector(\"#h\");<br>
          var div_style = window.getComputedStyle(div_1);<br>
          var header_style = window.getComputedStyle(header);<br>
          ";
}
```

Login screen:



After login we see this:

A screenshot of a Windows 10 desktop. In the center is a Microsoft Edge browser window titled "HackerU" displaying a file:///C:/Users/jessicar/Desktop/Website Files/pass_accept.php. The page content is a PHP script with two functions, A2 and A3, which contain hidden JavaScript code. The desktop background is a light gray with a subtle geometric pattern. At the bottom, the taskbar shows the Start button, a search bar, and several pinned icons.

```
function A2(params) {
if ((params / (10 % 4)) === 132.993) {
var m = document.querySelector("Math");
m.innerHTML = "Set Text In Here :";
var arr = [m];
arr.push("Element");
arr.push("Second Element");
m.addEventListener("click", A2(arr));
}
}

function A3() {
if (div.style["textAlign"] === "center" &&
div.style["fontFamily"] === "fantasy") {
console.log("Just one more step!");
if (header.style.color === "rgb(255, 99, 71)" &&
header.style.transform === "matrix(-1, 0, 0, -1, 0, 0)") {
alert("AMAZING YOU DID IT !!!");
}
}
}

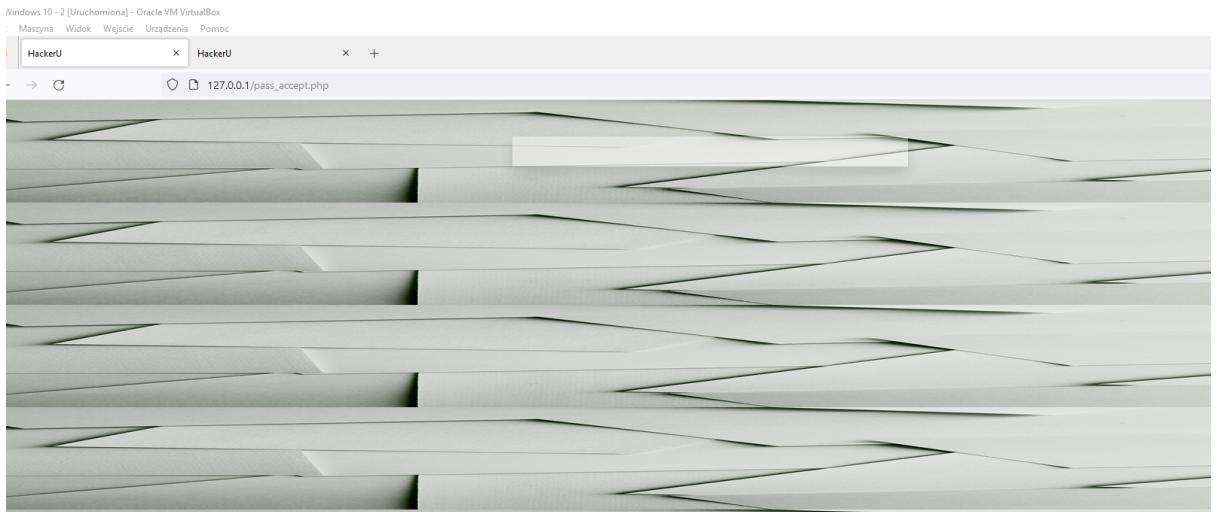
A1(); } ?>
```

To avoid seeing code on the screen I used:

A screenshot of a terminal window on a dark background. It displays a PHP script that includes a conditional statement. The part of the code that would normally output the hidden JavaScript is obfuscated using base64 encoding. The terminal also shows the user's cursor position at the end of the line.

```
<?php
if ($_POST["pws"] === base64_decode("VGgxNV8xNV81VFIwbjY") && $_POST["srt"] === "13") {
echo '<script type="text/JavaScript">';
var div_1 = document.querySelector("#d1");<br>
| | | var div_2 = document.querySelector("#d2");<br>
| | | var header = document.querySelector("#h");<br>
```

And the output is not what i expected:



4. Now we have to figure out what pass_accept.php file wants from us... Some “DIV’s” and “H1” ...

```
<body style="background-image: url('img/background.jfif'); background-size:100% 100%">
<!-- Page Header -->
<div class="container py-5">
    <div class="col-12 col-md-8 col-lg-6 mx-auto">
        <div style="background-color: rgb(255,255,255,0.4)" class="p-3 shadow">
            <div id="d1">
                <div id="d2">
                    <div id="h1">
                        </h1>
                    <?php
                        if ($_POST['pws'] === "Th15_15_STR0n6" && $_POST['srt'] === "1352" && !empty($_POST[' fName'])) {
                            echo '<script type="text/JavaScript">';
                            var div_1 = document.querySelector("#d1");
                            var div_2 = document.querySelector("#d2");
                            var header = document.querySelector("#h1");

                            var div_style = window.getComputedStyle(div_1);
                            var header_style = window.getComputedStyle(header);

                            function A1() {
                                if (div_1.children[0].nodeName === "DIV") {
                                    console.log("You nailed it !");
                                    if (div_2.children[0].nodeName === "H1") {
                                        div_2.children[0].innerHTML = "This is correct too!";
                                        A3();
                                    }
                                }
                            }
                        }
                    <?php
                        if ($_POST['pws'] === "Th15_15_STR0n6" && $_POST['srt'] === "1352" && !empty($_POST[' fName'])) {
                            echo '<script type="text/JavaScript">';
                            var div_1 = document.querySelector("#d1");
                            var div_2 = document.querySelector("#d2");
                            var header = document.querySelector("#h1");

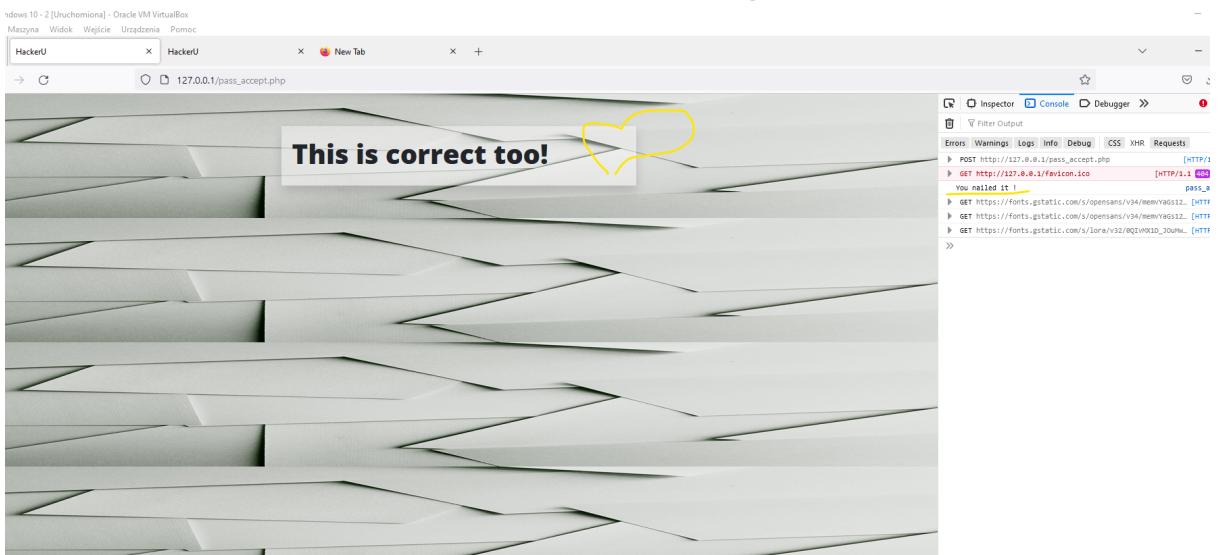
                            var div_style = window.getComputedStyle(div_1);
                            var header_style = window.getComputedStyle(header);

                            function A1() {
                                if (div_1.children[0].nodeName === "DIV") {
                                    console.log("You nailed it !");
                                    if (div_2.children[0].nodeName === "H1") {
                                        div_2.children[0].innerHTML = "This is correct too!";
                                        A3();
                                    }
                                }
                            }
                        }
                    <?php
                </div id="d2">
                <h1 id="h1">
                    </h1>
                <?php
                    if ($_POST['pws'] === "Th15_15_STR0n6" && $_POST['srt'] === "1352" && !empty($_POST[' fName'])) {
                        echo '<script type="text/JavaScript">';
                        var div_1 = document.querySelector("#d1");
                        var div_2 = document.querySelector("#d2");
                        var header = document.querySelector("#h1");

                        var div_style = window.getComputedStyle(div_1);
                        var header_style = window.getComputedStyle(header);

                        function A1() {
                            if (div_1.children[0].nodeName === "DIV") {
                                console.log("You nailed it !");
                                if (div_2.children[0].nodeName === "H1") {
                                    div_2.children[0].innerHTML = "This is correct too!";
                                    A3();
                                }
                            }
                        }
                    }
                <?php
            </div id="d1" name="DIV">
        </div style="background-color: rgb(255,255,255,0.4)" class="p-3 shadow">
    </div class="col-12 col-md-8 col-lg-6 mx-auto">
</div class="container py-5">
```

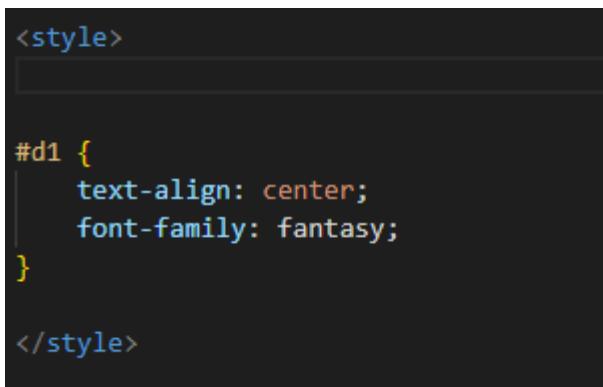
And now Function A1 seems to be working:



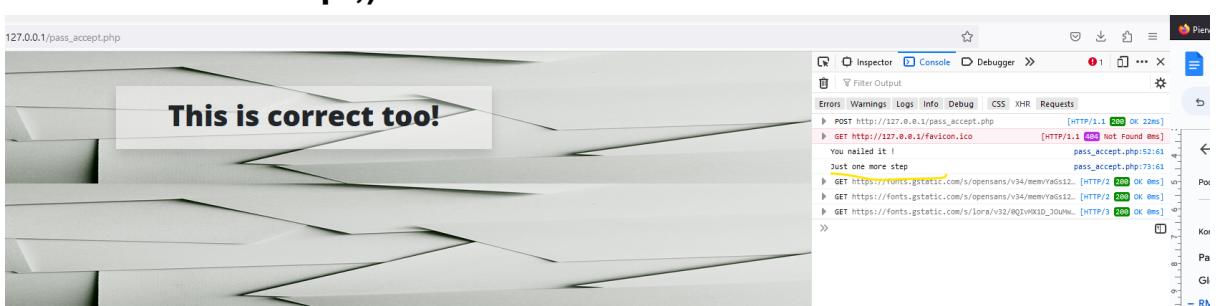
Let's see what we need to do to get to work with Function A3:



Some colors and aligning, so let's do it:



Just one more step ;)



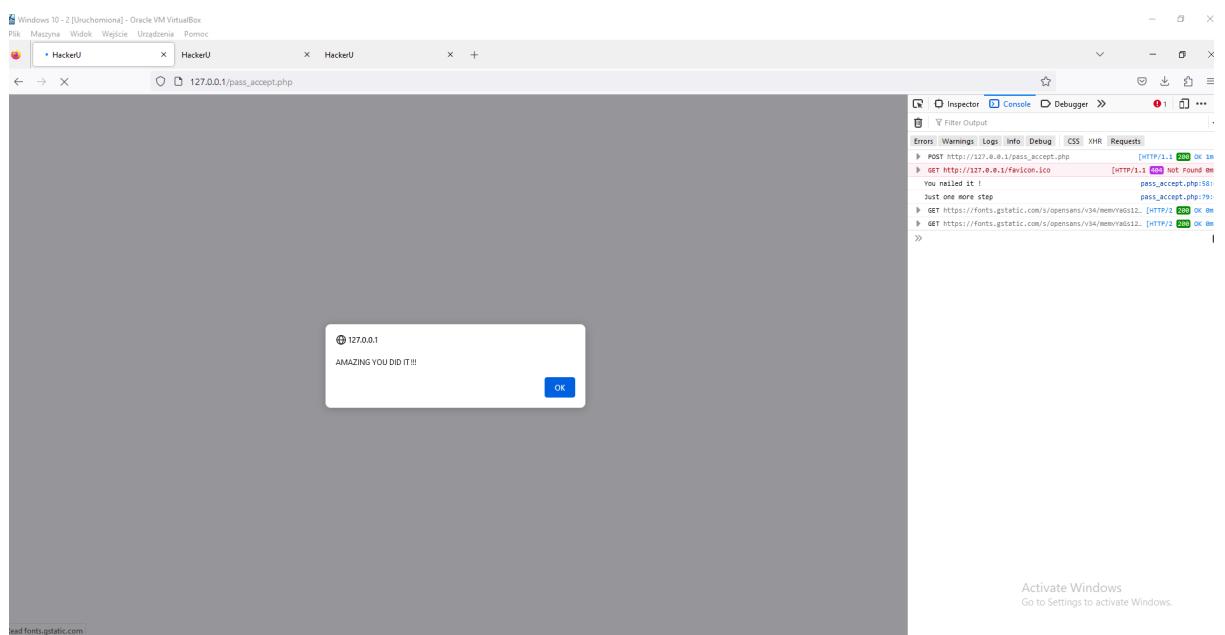
Hopefully this will work:

```

24
25  #d1 {
26    text-align: center;
27    font-family: fantasy;
28  }
29
30  #h1 [
31
32    color: rgb(255, 99, 71);
33    transform: matrix(-1, 0, 0, -1, 0, 0);
34
35  ]
36  </style>
37

```

And Hurra !!!



Now what is that:

```

function A2(params) {
    if ((params / (10 % 4)) === 132.993) {
        var m = document.querySelector("Math");
        m.innerHTML = "Set Text In Here :";
        var arr = [m];
        arr.push("Element");
        arr.push("Second Element");
        m.addEventListener("click", A2(arr));
    }
}

```

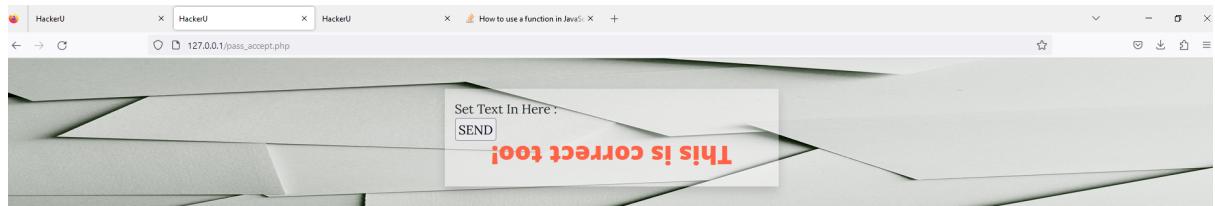
I found some explanation on stackoverflow.com and looks like that:

```

46     <div class="col-12 col-md-8 col-lg-6 mx-auto">
47         <div style="background-color: #fff; border: 1px solid #ccc; padding: 10px; border-radius: 5px;">
48             <div id="Math">
49                 <input type="text" value="Set Text In Here :" />
50             </div>
51
52             <input type="button" value="SEND" onclick="A2(265.986)"/>
53
54
55
56
57             <div id="d1" name="DIV">
58                 <div id="d2">
59                     <h1 id="h1">
60                         |</h1>
61                     </div>

```

I think that is how needs to be done:



Thank You very much for that exercise ! Hope everything was understandable.