



# **PENETRATION TESTING HOMEWORK**

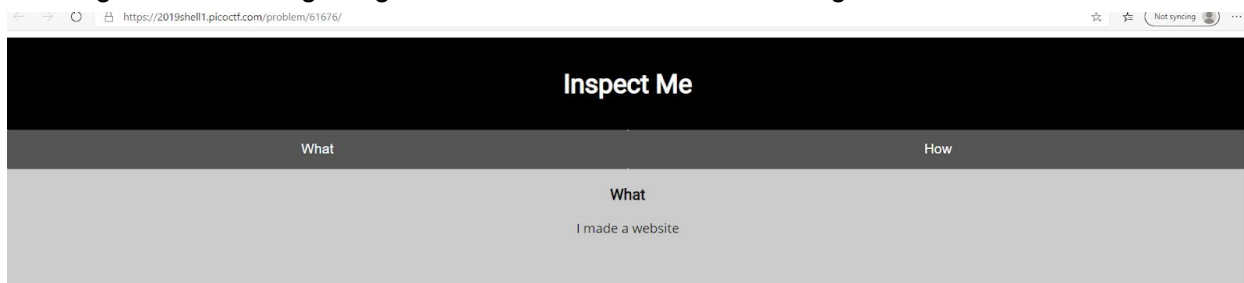


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## 1. Challenge 1

In this challenge, I was given a website to find the flags and I inspected the html, css and javascript code using view page source to get all three parts of the flag required for the challenge. The following Images show the website, code and flags that i found.





```
1 <!doctype html>
2 <html>
3   <head>
4     <title>My First Website :)</title>
5     <link href="https://fonts.googleapis.com/css?family=Open+Sans|Roboto" rel="stylesheet">
6     <link rel="stylesheet" type="text/css" href="mycss.css">
7     <script type="application/javascript" src="myjs.js"></script>
8   </head>
9
10  <body>
11    <div class="container">
12      <header>
13        <h1>Inspect Me</h1>
14      </header>
15
16      <button class="tablink" onclick="openTab('tabintro', this, '#222')" id="defaultOpen">What</button>
17      <button class="tablink" onclick="openTab('tababout', this, '#222')">How</button>
18
19      <div id="tabintro" class="tabcontent">
20        <h3>What</h3>
21        <p>I made a website</p>
22      </div>
23
24      <div id="tababout" class="tabcontent">
25        <h3>How</h3>
26        <p>I used these to make this site: <br/>
27          HTML <br/>
28          CSS <br/>
29          JS (JavaScript)
30        </p>
31        <!-- Html is neat. Anyways have 1/3 of the flag: picoCTF{tru3_d3 -->
32      </div>
33
34    </div>
35
36  </body>
37 </html>
38
```

```
width: 50%;
}

.tablink:hover {
  background-color: #777;
}

.tabcontent {
  color: #111;
  display: none;
  padding: 50px;
  text-align: center;
}

#tabintro { background-color: #ccc; }
#tababout { background-color: #ccc; }
```

/\* You need CSS to make pretty pages. Here's part 2/3 of the flag: `t3ct1ve_0r_ju5t` \*/



```
function openTab(tabName,elmnt,color) {
    var i, tabcontent, tablinks;
    tabcontent = document.getElementsByClassName("tabcontent");
    for (i = 0; i < tabcontent.length; i++) {
        tabcontent[i].style.display = "none";
    }
    tablinks = document.getElementsByClassName("tablink");
    for (i = 0; i < tablinks.length; i++) {
        tablinks[i].style.backgroundColor = "";
    }
    document.getElementById(tabName).style.display = "block";
    if(elmnt.style != null) {
        elmnt.style.backgroundColor = color;
    }
}

window.onload = function() {
    openTab('tabintro', this, '#222');
}

/* Javascript sure is neat. Anyways part 3/3 of the flag: _lucky?1638dbe7} */
```

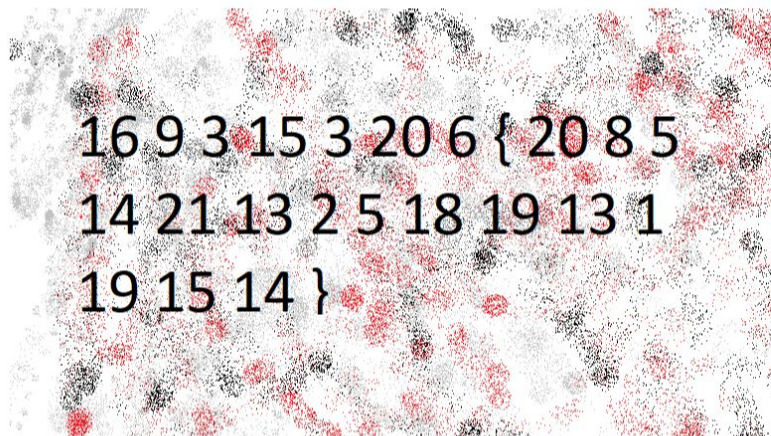
Insp3ct0r - Points: 50 - (Solves: 24179)Web Exploitation - Solved

SolveHints

Kishor Balan tipped us off that the following code may need inspection: <https://2019shell1.picoc.tf.com/problem/61676/> (link) or <http://2019shell1.picoc.tf.com:61676>

## 2. Challenge 2

In this challenge I needed to decrypt the given ciphertext which was simple, I just had to map all alphabets to numbers 1-26 and choose appropriate alphabet.



The Numbers - Points: 50 - (Solves: 19851)

Cryptography - Solved



Solve

Hints

The numbers... what do they mean?

Submit!

PICOCTF{THENUMBERSMASON}



### 3. Challenge 3

In this we just needed hexadecimal to ASCII conversion as shown below.

Lets Warm Up - Points: 50 - (Solves: 45713)

General Skills - Solved



Solve

Hints

If I told you a word started with 0x70 in hexadecimal, what would it start with in ASCII?

Submit!

picoCTF{p}





## 4. Challenge 4

In this as well we needed to convert hexadecimal to decimal, which was fun. I have used a simple google search to verify it.

Warmed Up - Points: 50 - (Solves: 36301) General Skills - Unsolved

Solve

Hints

What is 0x3D (base 16) in decimal (base 10).

Submit!

picoCTF{61}

