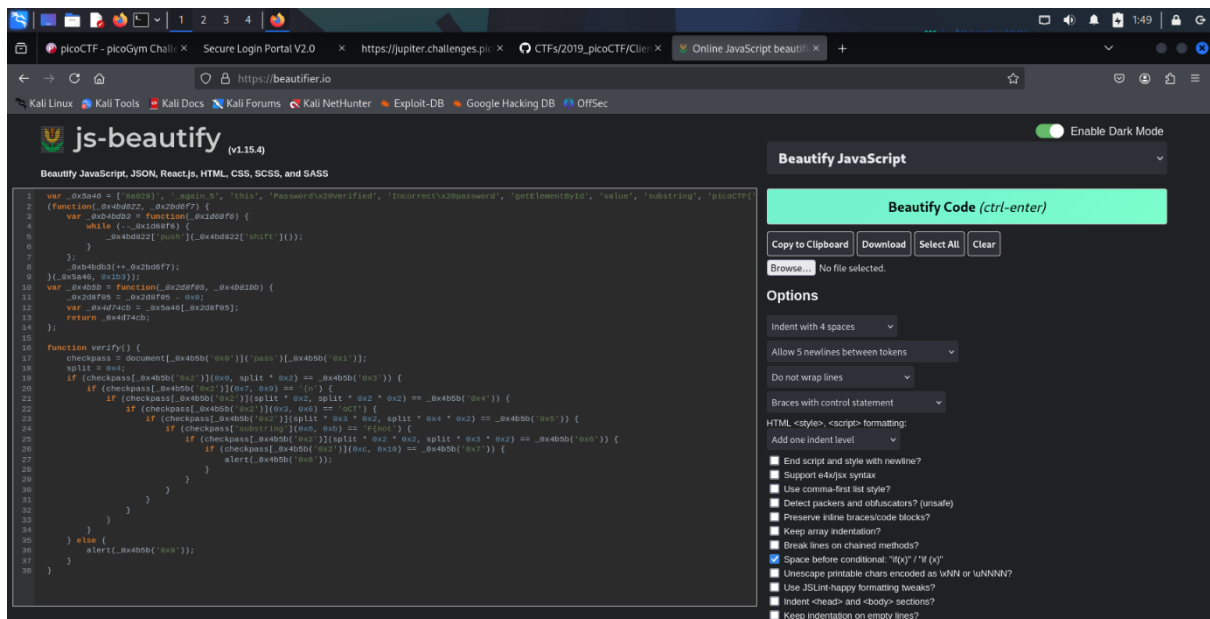


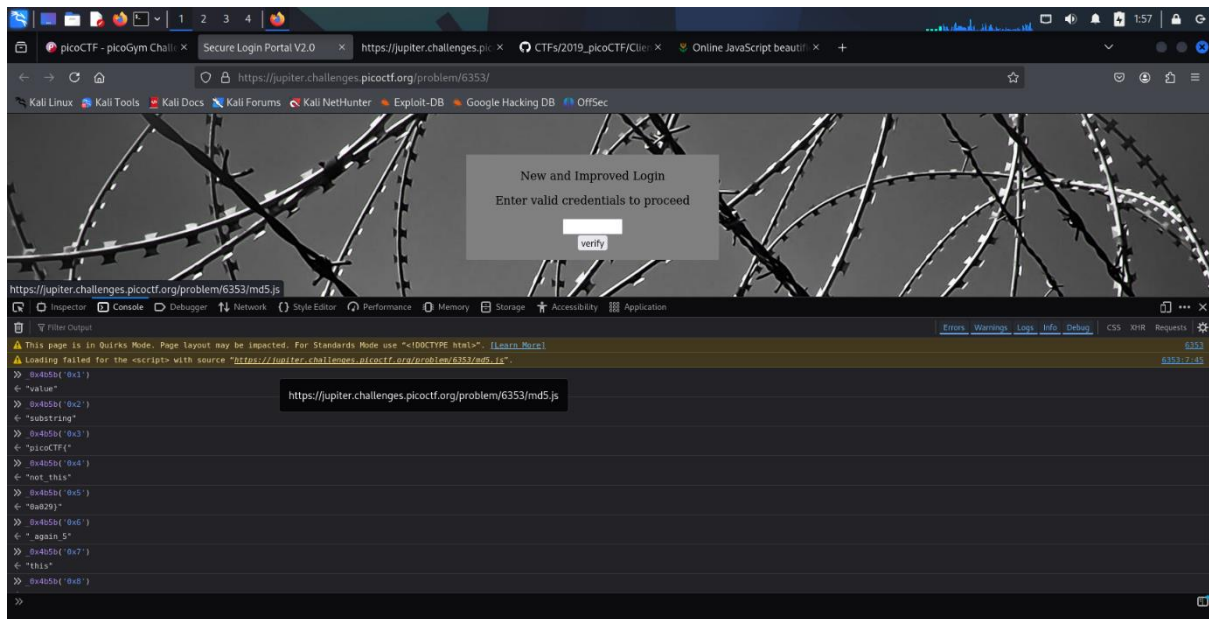
```
1 <html>
2 <head>
3 <title>Secure Login Portal V2.0</title>
4 </head>
5 <body background="barbed_wire.jpg" >
6 <!-- standard MD5 Implementation -->
7 <script type="text/javascript" src="md5.js"></script>
8
9 <script type="text/javascript">
10 var _0x5a4e=[0x023],_again5=[this,'Passwordv20verified','Incorrectv20password','getElementById','value','substring','picoCTF','not this',(function(_0x4b822,_0x2b9e77){(var _0xb4bb6=function(_0x1d68f6){while(!_0x1d68f6
11 </script>
12 <div style="position:relative;padding:5px;top:50px;left:30%;width:350px;height:140px;background-color:gray">
13 <div style="text-align:center">
14 <p>Now and Improved Login</p>
15
16 <p>Enter valid credentials to proceed</p>
17 <form action="index.html" method="post">
18 <input type="password" id="pass" size="8" />
19 <br/>
20 <input type="submit" value="verify" onclick="verify(); return false;" />
21 </form>
22 </div>
23 </div>
24 </body>
25 </html>
26
```

A lot of javascript found , the picocTF part of the flag use beautify to it like javascript beautify sites



```
1 var _0x5a4e=[0x023],_again5=[this,'Passwordv20verified','Incorrectv20password','getElementById','value','substring','picoCTF'];
2 (function(_0x4b822,_0x2b9e77){
3   var _0xb4bb6=function(_0x1d68f6){
4     while(!_0x1d68f6){
5       _0x4b822[again5][_0x4b822[shift]++]();
6     }
7   };
8   _0xb4bb6(++_0x2b9e77);
9 })(_0x5a4e,0x103);
10 var _0x4b82b=function(_0x2d8f8b,_0x4b82bb){
11   _0x2d8f8b=_0x2d8f8b-_0x0;
12   var _0x4d74cb=_0x5a4e[_0x2d8f8b];
13   return _0x4d74cb;
14 };
15
16 function verify(){
17   checkpass=document[_0x4b82b('pass')][_0x4b82b('val')];
18   split=0x0;
19   if(checkpass[_0x4b82b('0x2')][0x0,split*0x2]==_0x4b82b('0x1')){
20     if(checkpass[_0x4b82b('0x2')][0x7,0x0]==_0x0){
21       if(checkpass[_0x4b82b('0x2')][split*0x2,split*0x2]==_0x4b82b('0x4')){
22         if(checkpass[_0x4b82b('0x2')][0x3,0x0]==_0x0){
23           if(checkpass[_0x4b82b('0x2')][split*0x3*0x2,split*0x4*0x2]==_0x4b82b('0x5')){
24             if(checkpass[_0x4b82b('0x2')][split*0x2,split*0x3*0x2]==_0x4b82b('0x6')){
25               if(checkpass[_0x4b82b('0x2')][0xc,0x10]==_0x4b82b('0x7')){
26                 alert(_0x4b82b('0x8'));
27               }
28             }
29           }
30         }
31       }
32     }
33   }
34 }
35 } else {
36   alert(_0x4b82b('0x9'));
37 }
38 }
```

Things are obfuscated with particular function used the function to find the values



_0x4b5b('0x1')

(0-8) == "picoCTF{"

(7-9) == "{n"

(8-16) == "not_this"

(3-6) == "oCT"

(24-32) == "c2047}"

(6-11) == "F{not"

(16-24) == "_again_6"

(12-16) == "this"

```
if (checkpass["substring"])(0, split * 2) == "picoCTF{" {
    if (checkpass["substring"])(7, 9) == "{n" {
        if (checkpass["substring"](split * 2, split * 2 * 2) == "not_this" {
```

```

if (checkpass["substring"])(3, 6) == "oCT") {

  if (checkpass["substring"])(split * 3 * 2, split * 4 * 2) == "55670}") {

    if (checkpass["substring"])(6, 11) == "F{not") {

      if (checkpass["substring"])(12, 16) == "this") {

        if (checkpass["substring"])(split * 2 * 2, split * 3 * 2) == "_again_0") {

```

a python program to solve this and join them a script from internet

```

text = """

if (checkpass["substring"])(0, split * 2) == "picoCTF{") {

  if (checkpass["substring"])(7, 9) == "{n") {

    if (checkpass["substring"])(split * 2, split * 2 * 2) == "not_this") {

      if (checkpass["substring"])(3, 6) == "oCT") {

        if (checkpass["substring"])(split * 3 * 2, split * 4 * 2) == "55670}") {

          if (checkpass["substring"])(6, 11) == "F{not") {

            if (checkpass["substring"])(12, 16) == "this") {

              if (checkpass["substring"])(split * 2 * 2, split * 3 * 2) == "_again_0") {

                """

flag = [None] * 32

split = 4

for line in text.split("\n"):

  line = line.strip()

  if line == "":

    continue

  line = line.replace('if (checkpass["substring"])(', 'flag['].replace(', ', ':').replace(') == ', '= ').replace(') {', '')

  exec(line)

print ("".join(flag))

```

