A4.html

```html
1  <html>
2
3  <head>
4      <title>Todo Application</title>
5      <script type="text/javascript" src="A4.js"></script>
6      <script
       src="https://ajax.googleapis.com/ajax/libs/jquery/2.2.0/jquery.min.js">
       </script>
7      <link rel="stylesheet" type="text/css"
       href="https://maxcdn.bootstrapcdn.com/bootstrap/4.0.0-
       alpha.2/css/bootstrap.min.css">
8      <link rel="stylesheet" type="text/css" href="A4.css">
9  </head>
10
11 <body>
12     <div class="container">
13
14
15         <div class="jumbotron text-center">
16             <h1>Tank Wars Console</h1>
17         </div>
18
19     </div>
20     <div class="container">
21
22         <input type="text" placeholder="enter encoded command"
           id="encodedCommand">
23
24         <button type="button" onclick="localDecode()">Local Decode</button>
25
26         <button type="button" onclick="serverDecode()">Server Decode</button>
27
28     </div>
29
30     <br>
31
32     <div class="container">
33
34         <div class="boxed" id="decodedCode" placeholder="Decoded command
           appears here.">
35             Decoded command will appear here.
36         </div>
37     </div>
38
39 </body>
40
41 </html>
```

A4.js

```javascript
1  function localDecode(){
2
3      var encodedCommand = document.getElementById("encodedCommand").value;
4      var re = /(t[0-9]+).*(s|go)/;
5      var matchlist = re.exec(encodedCommand);
6      var output;
7      var tank = matchlist[1];
8      var command = matchlist[2];
9
10     //matching go command
11     if (command == "s") {
12
13         out = tank + " " + command;
14
15     } else {
16
17         re = /(t\d+).*?(go).*?(\d+).*?(\d+)/;
18
19         matchlist = re.exec(encodedCommand);
20         var c1 = matchlist[3];
21         var c2 = matchlist[4];
22         out = tank + " " + command + " " + c1 + " " + c2;
23     }
24
25     document.getElementById("decodedCode").innerHTML = out;
26 };
27
28 function serverDecode() {
29     var encodedCommand = document.getElementById("encodedCommand").value;
30  var data = $.getJSON(
31         "A2server.py", {
32             msg : encodedCommand
33         },
34         function (data) {
35             command = data["command"];
36             document.getElementById("decodedCode").innerHTML = command;
37         }
38     )};
39
```