

```

1 // ***** Homework 6 Pt III script *****
2
3 // When the document is fully loaded, execute the following code.
4 $(document).ready(function() {
5     // The mask format is (xxx) xxx-xxxx in input field, where x is a digit.
6     $('#phoneNumberInput').mask('(000) 000-0000');
7
8     // Defined function to process phone number and assigned to the global window object
9     // to be accessible from HTML.
10    window.splitPhoneNumber = function() {
11        // Retrieve the value from the phone number input field.
12        var phone = $('#phoneNumberInput').val();
13
14        // Select the element for displaying error messages.
15        var errorMessage = $('#errorMessage');
16
17        // Define a regular expression to match the phone number format.
18        // The format is (xxx) xxx-xxxx with x being a digit.
19        // Parentheses create groups to extract area code, first 3 digits, and last 4
20        // digits.
21        var regex = /^((\d{3})\ ) (\d{3})-(\d{4})$/;
22
23        // Attempt to match the entered phone number with the regex pattern.
24        var match = phone.match(regex);
25
26        // If the phone number matches the pattern, proceed with processing.
27        if (match) {
28            // Set the area code, first 3 digits, and last 4 digits in their respective
29            // fields.
30            $('#areaCode').val(match[1]);
31            $('#firstThreeDigits').val(match[2]);
32            $('#lastFourDigits').val(match[3]);
33
34            // Clear any previous error messages.
35            errorMessage.text('');
36        } else {
37            // If the format is incorrect, display an error message.
38            errorMessage.text('Please enter the phone number in the format (999)
39            999-9999.');
```