```
1    //**************** script for Homework 5 Pt I ****************/
2
3    $(document).ready(function() {
4    // Define the options for the radio buttons, checkboxes, and select element
5    const ageGroups = ['Less than 21', '21 - 50', 'Older than 50'];
6    const browsers = ['Firefox', 'Edge', 'Chrome', 'Safari'];
7    const movieTypes = ['Action', 'Comedy', 'Drama', 'Documentary', 'Science Fiction'];
8
9    // Generate the radio buttons
10   ageGroups.forEach((ageGroup, index) => {
11       $('#ageGroup').append(
12           `<input type="radio" id="ageGroup${index}" name="ageGroup" value="${ageGroup}">
13           <label for="ageGroup${index}">${ageGroup}</label>`
14       );
15   });
16
17   // Generate the checkboxes
18   browsers.forEach((browser, index) => {
19       $('#browserGroup').append(
20           `<input type="checkbox" id="browser${index}" name="browsers" value="${browser}">
21           <label for="browser${index}">${browser}</label>`
22       );
23   });
24
25   // Generate the options for the select element
26   $('#movieType').append('<option value="">--Select--</option>');
27   movieTypes.forEach((movieType) => {
28       $('#movieType').append(`<option
29           value="${movieType.toLowerCase()}">${movieType}</option>`);
29   });
30
31   // Set up form validation
32   $("#myForm").validate({
33       rules: {
34           fullName: "required",
35           ageGroup: "required",
36           browsers: {
37               required: true,
38               minlength: 1
39           },
40           movieType: "required"
41       },
42       messages: {
43           fullName: "Please enter your full name",
44           ageGroup: "Please select your age group",
45           browsers: "Please select at least one browser",
46           movieType: "Please select your favorite movie type"
47       },
48       submitHandler: function(form) {
49           setTimeout(function() {
50               $('#output').html("<p class='completeForm'>Thanks, your data was
50               submitted!</p>").hide().fadeIn(100);
51           }, 500); // Delay of 0.5 second
52       },
53       errorPlacement: function(error, element) {
54           if (element.attr("type") === "radio") {
55               error.insertAfter("#ageGroup").find('label.error').css('display', 'block');
56           } else if (element.attr("type") === "checkbox") {
57               error.insertAfter("#browserGroup").find('label.error').css('display',
57               'block');
58           } else {
59               error.insertAfter(element);
60           }
61       }
62   });
63
64   // Clear button functionality
65   $('#clearButton').click(function() {
66       $('#output').html("");
```

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67        $("#myForm")[0].reset(); // This will clear all the input fields
68        $("#myForm").validate().resetForm(); // This will clear all validation messages
69        $('input').removeClass('error'); // Remove the error class from inputs
70        $('select').removeClass('error'); // Remove the error class from select
71    });
72    });
```