VALIDATION CSS CLASS IN ANGULARJS

- AngularJS Provides some CSS classes related to forms and input fields and its states.

- The AngularJS add or remove **CSS** classes automatically to the **input** field or **form** depending upon its **states.**

CSS Classes for AngularJS Validation:

CSS Class	Form	Input	Description
ng-untouched	No	Yes	The field has not been touched.
ng-touched	No	Yes	The field has been touched.
ng-pristine	Yes	Yes	The field has not been changed.
ng-dirty	Yes	Yes	The field has been changed.
ng-valid	Yes	Yes	The content is valid.
ng-invalid	Yes	Yes	The content is not valid.
ng-valid-key	Yes	Yes	All valid key create the CSS class.
ng-invalid-key	Yes	Yes	All in-valid key create the CSS class.

Sample code for CSS Class Validation in AngularJS:

```html
<!DOCTYPE html>
<html>
    <head>
        <title>Wikitechy AngularJS Tutorials</title>
        <script
src="https://ajax.googleapis.com/ajax/libs/angularjs/1.5.6/angular.min.js">
</script>
        <style>
            input.ng-pristine {
                background-color:orange;
            }
            input.ng-touched.ng-invalid {
                background-color:red;
            }
            input.ng-touched.ng-valid {
                background-color:green;
            }
        </style>
    </head>
    <body>
        <h3>AngularJS HTML CSS Class Validation</h3>
        <form ng-app="myApp" ng-controller="inputCtrl" name="myform">
            Enter Mobile Number :
            <input type="text" name="number" ng-model="number" required ng-
minlength="10" ng-maxlength="13" ng-pattern="/^[0-9]+$/">
            <input type="submit" value="Submit" ng-click="submit()" />
        </form>
        <script>
            var app = angular.module("myApp", []);
            app.controller("inputCtrl", function($scope) {
                $scope.submit = function () {
                    If($scope. myform.$valid) {
                        alert("Form Submitted Successfully!");
```

```
                }
                else {
                    alert("Invalid Form!");
                }
            };
        });
    </script>
  </body>
</html>
```

CSS:

- CSS Classes in AngularJS Application.

```
<style>
    input.ng-pristine {
        background-color:orange;
    }
    input.ng-touched.ng-invalid {
        background-color:red;
    }
    input.ng-touched.ng-valid {
        background-color:green;
    }
</style>
```
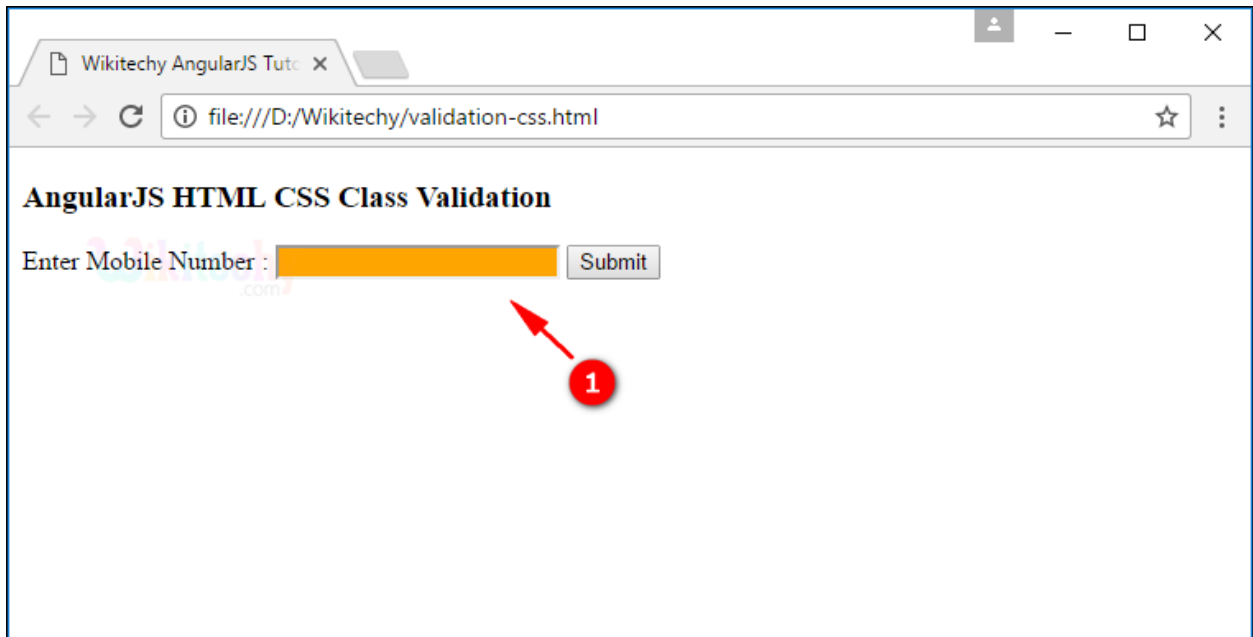
Code Explanation for CSS Class validation in AngularJS:

```html
<!DOCTYPE html>
<html>
  <head>
    <title>Wikitechy AngularJS Tutorials</title>
    <script src="https://ajax.googleapis.com/ajax/libs/angularjs/1.
      5.6/angular.min.js"></script>
    <style>
      input.ng-pristine {          ➔ 1
          background-color:orange;
      }
      input.ng-touched.ng-invalid {  ➔ 2
          background-color:red;
      }
      input.ng-touched.ng-valid {    ➔ 3
          background-color:green;
      }
    </style>
  </head>
  <body>
    <h3>AngularJS HTML CSS Class Validation </h3>
4 ➔ <form ng-app="myApp" ng-controller="inputCtrl" name="myform">
    Enter Mobile Number :
5 ➔ <input type="text" name="number" ng-model="number" required
    ng-minlength="10" ng-maxlength="13" ng-pattern="/^[0-9]+$/">
6 ➔ <input type="submit" ng-click="submit()" value="Submit" />
    </form>
    <script>
      var app = angular.module("myApp", []);
      app.controller("inputCtrl", function($scope) {
7 ➔    $scope.submit = function() {
          if($scope.myform.$valid) {
            alert("Form Submitted Successfully!" );
          }
          else {
            alert("Invalid Form!" );
          }
        };
      });
    </script>
  </body>
</html>
```

1. The **".ng-pristine"** is a CSS class to change the input control background-color as orange when the input control still not touched.

2. The **".ng-touched.ng-invalid"** is a CSS class to change the input control background-color as red when the input field is touched and the content is invalid.

3. The **".ng-touched.ng-invalid"** is a CSS class to change the input control background-color as green when the input field is touched and the content is valid.

4. The **"<form>"** tag is used to create an input form to the user which controls the all input fields in it.

5. The **"<input>"** tag is used to get mobile number from user and that will be validated and the CSS will be reflected.

6. The **Submit** button used to submit the form values by submit() function.

7. The **"submit()"** function is used to check the submitted value and show an alert message depends the form valid or not.
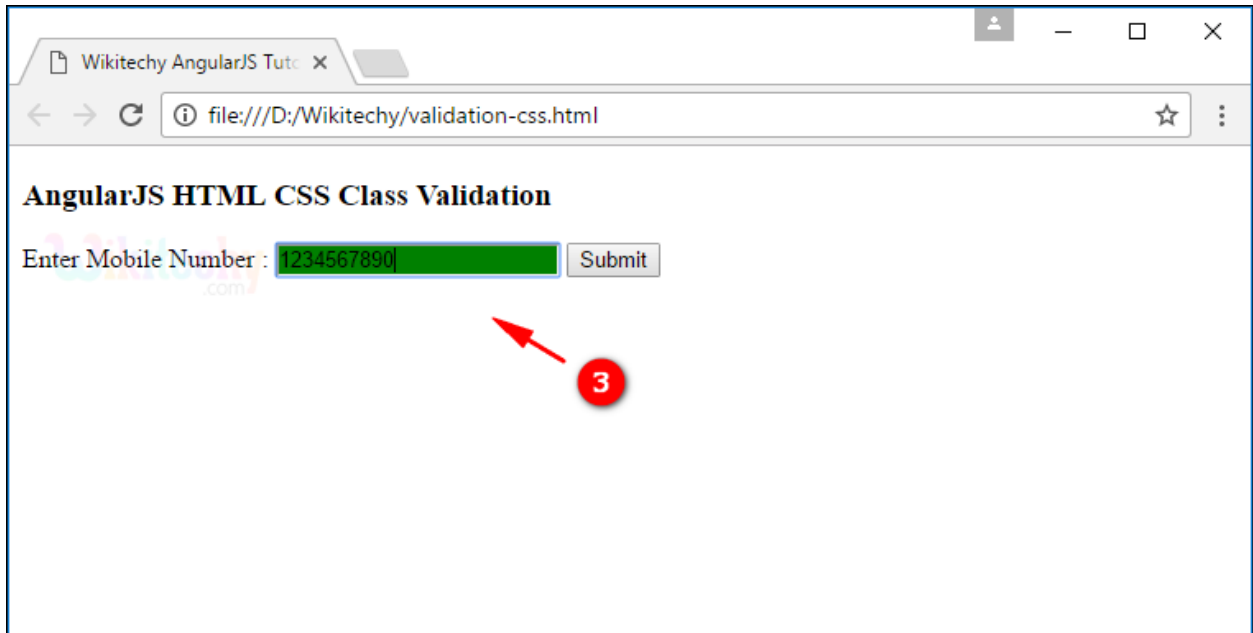
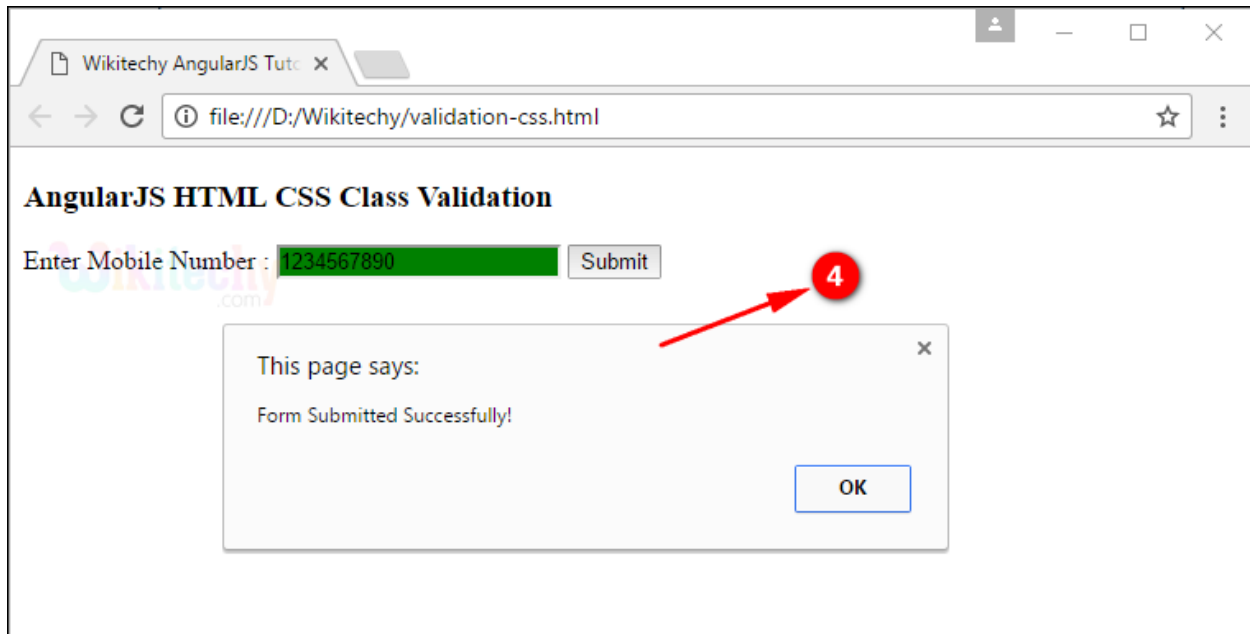## Sample Output for CSS Class validation in AngularJS:

1. The textbox is displayed with orange color on page load because that not modified so **ng-pristine** CSS class applied.
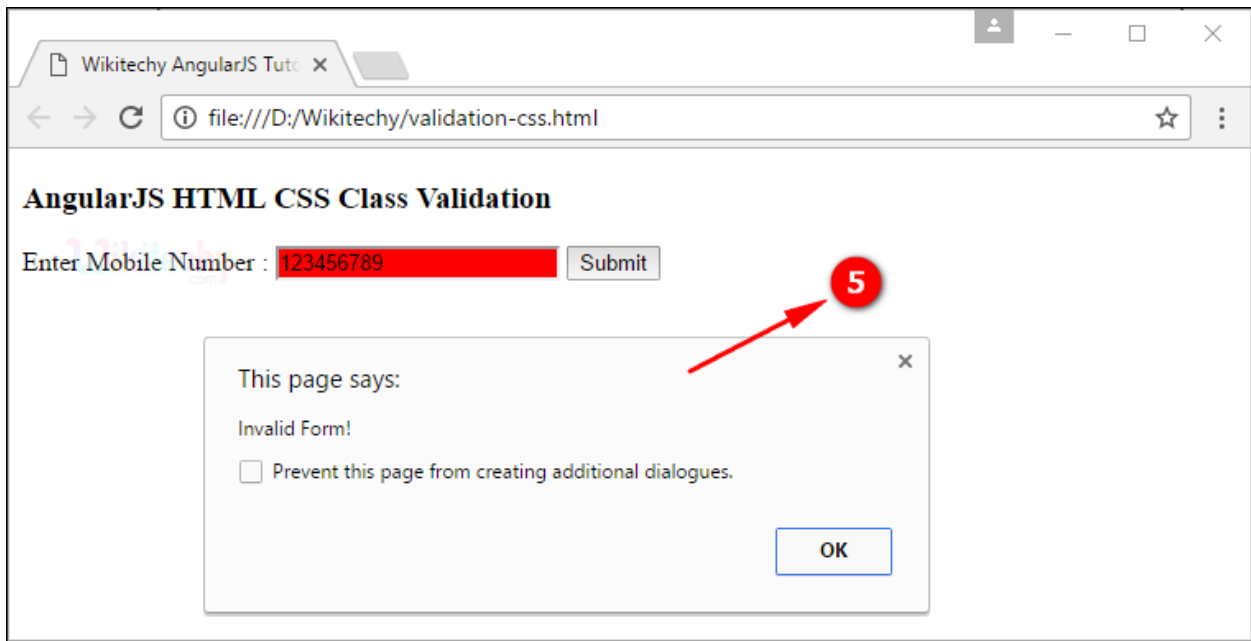

2. When user try to modify the textbox if text is invalid that will be displayed in red color because **un-touched** and **ng-invalid** CSS class is called.

3. When user try to modify the textbox if text is valid that will be displayed in green color because **un-touched** and **ng-valid** CSS class is called.

4. When user try to submit with valid input then it shows a success alert message.

5. When user try to submit with in-valid input then it shows an Error alert message.