Step 1:

import {FormsModule} from '@angular/forms';

imports: [

    BrowserModule,

    FormsModule

Step 2:

Add Numbers

 <div class="container">

   <div class="row">

     <form #refForm='ngForm' (ngSubmit)="Add(refForm)">

       <div>

       <label for="txtNo1"> Enter No 1</label>

       <input type="number" name="txtNo1" ngModel/>

      </div>

      <div>

        <label for="txtNo2"> Enter No 2</label>

        <input type="number" name="txtNo2" ngModel/>

       </div>

      <div>

        <label for="txtResult"> Result </label>

        <input type="number" name="txtResult" ngModel [value]="res"/>

       </div>

      <div>

        <button type="submit"> Add </button>

      </div>

      </form>

   </div>

 </div>

 n1 : number;

 n2:number;

 res: number;

Add(refForm : any)

  {

    console.log(refForm.value);

    this.n1 = refForm.controls.txtNo1.value;

    console.log(this.n1);

    this.n2 = refForm.controls.txtNo2.value;

    this.res =  this.n1 + this.n2;

    console.log(this.res);

    refForm.controls.txtResult.value = this.res;

  }

Validation

   <form #refForm='ngForm' (ngSubmit)="Add(refForm)">

       <div>

       <label for="txtNo1"> Enter No 1</label>

       <input type="number" name="txtNo1" required ngModel #no1/>

<div>

       {{no1.className}}

</div>

You will get classes :

**ng-untouched ng-pristine ng-invalid**

When you click within text box

**ng-pristine ng-invalid ng-touched**

Enter Value

**ng-touched ng-dirty ng-valid**

 <div class="container">

   <div class="row">

     <form #refForm='ngForm' (ngSubmit)="Add(refForm)">

       <div>

       <label for="txtNo1"> Enter No 1</label>

       <input type="number" name="txtNo1" ngModel  required #data="ngModel"/>

       <div class="alert alert-danger" \*ngIf="data.touched && !data.valid">

        Number 1 is must

       </div>

 </div>

       <div>

        <label for="txtNo2"> Enter No 2</label>

        <input type="number" name="txtNo2" required ngModel #no2="ngModel"/>

        <div class="alert alert-danger" \*ngIf="no2.touched && !no2.valid">

          Number 2 is must

         </div>

      </div>

      <div>

        <label for="txtResult"> Result </label>

        <input type="number" name="txtResult" ngModel [value]="res"/>

       </div>

      <div>

        <button type="submit"> Add </button>

      </div>

      </form>

   </div>

 </div>

<form>

  <div class="form-group">

  <label for="firstName">First Name</label>

  <input required minlength="3" maxlength="10" ngModel name="firstName" #firstName ="ngModel" (change)="log(firstName)" id="firstName" type="text" class="form-control">

<div class="alert alert-danger" \*ngIf="firstName.touched && !firstName.valid">

First Name is must

<div \*ngIf="firstName.errors.required"> FirstName is must </div>

<div \*ngIf="firstName.errors.minlength"> Min {{firstName.errors.minlength.requiredLength}} char</div>

<div \*ngIf="firstName.errors.maxlength"> Max 10 char</div>

</div>

</div>

<div class="form-group"><label for="email">

    Email

    </label>

    <input type="email"

    class="form-control"

    name="email"

    ngModel

    minlength="10"

    required

    pattern="[^ @]\*@[^ @]\*"

    #email="ngModel">

    <div class="form-control-feedback"

    \*ngIf="email.errors && (email.dirty || email.touched)">

 <p \*ngIf="email.errors.required">Email is required</p>

 <p \*ngIf="email.errors.minlength">Email must contain at least the @ character</p>

 <p \*ngIf="email.errors.pattern">Email must contain at lePatterenast the @ character</p>

</div></div>

<div class="form-group">

  <label for="comment">

Comment

</label>

<input type="textarea" ngModel name="comments" class="form-control" rows="10" cols="10" ></div>

<button class="btn btn-primary">Submit</button>

  <button type="submit" [disabled]="!refForm.valid"> Add </button>

input.ng-pristine {

  background-color:yellow;

}

input.ng-touched.ng-invalid {

  background-color:red;

}

input.ng-touched.ng-valid {

  background-color:green;

}

[**https://www.tektutorialshub.com/angular/template-driven-form-validation-in-angular/**](https://www.tektutorialshub.com/angular/template-driven-form-validation-in-angular/)