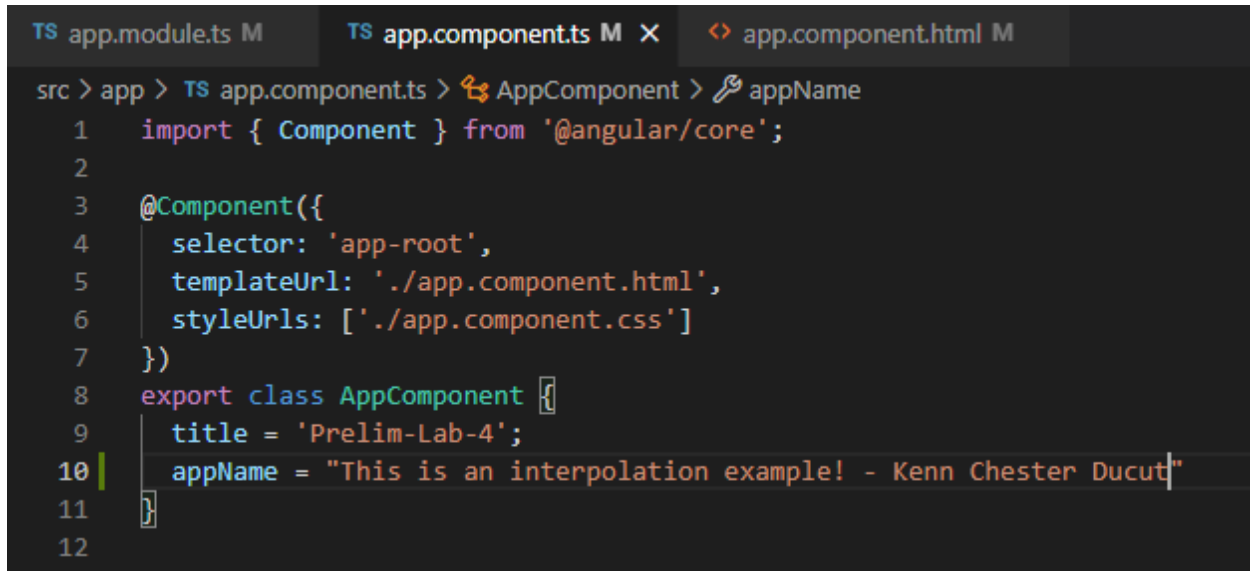


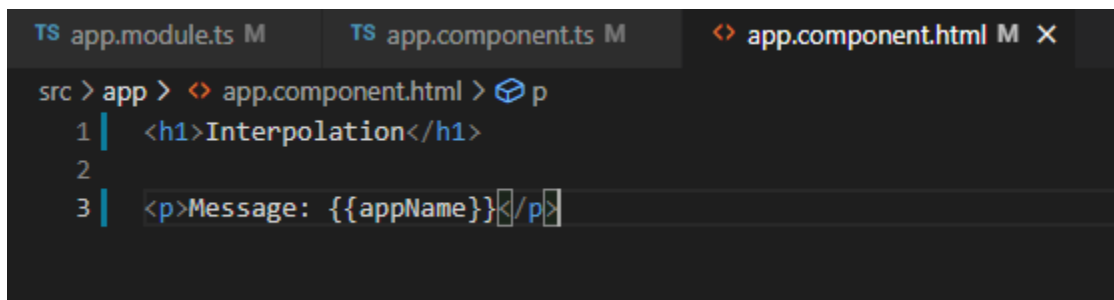
Submit a screenshot of Data Binding techniques done in your local machine.

1. One-way data binding (interpolation)
 - String/Number Binding



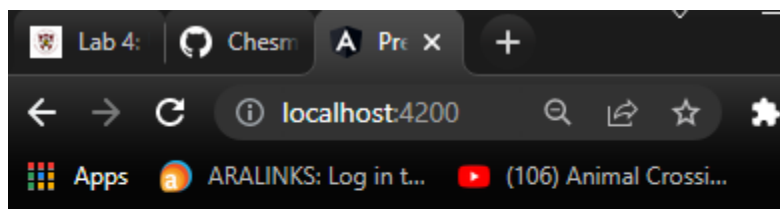
```
TS app.module.ts M    TS app.component.ts M X    app.component.html M
src > app > TS app.component.ts > AppComponent > appName
1  import { Component } from '@angular/core';
2
3  @Component({
4    selector: 'app-root',
5    templateUrl: './app.component.html',
6    styleUrls: ['./app.component.css']
7  })
8  export class AppComponent {
9    title = 'Prelim-Lab-4';
10   appName = "This is an interpolation example! - Kenn Chester Ducut";
11 }
12
```

App Component ts file



```
TS app.module.ts M    TS app.component.ts M    app.component.html M X
src > app > app.component.html > p
1  <h1>Interpolation</h1>
2
3  <p>Message: {{appName}}</p>
```

app.component.html file



Interpolation

Message: This is an interpolation example! - Kenn Chester Ducut

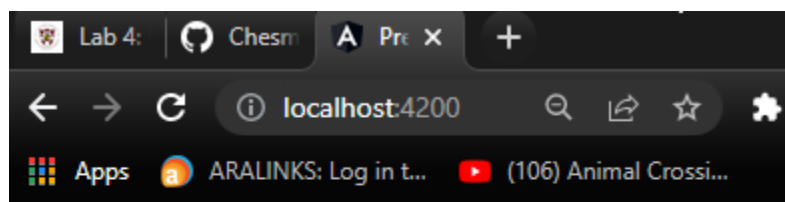
- Property Binding

```
TS app.module.ts M X TS app.component.ts M X <> app.component.html M X
src > app > TS app.component.ts > AppComponent > clientName
1 import { Component } from '@angular/core';
2
3 @Component({
4   selector: 'app-root',
5   templateUrl: './app.component.html',
6   styleUrls: ['./app.component.css']
7 })
8 export class AppComponent {
9   title = 'Prelim-Lab-4';
10
11   //Interpolation
12   appName = "This is an interpolation example! - Kenn Chester Ducut"
13
14   //Property Binding
15   clientName:string = "Kenn Chester";
16 }
17
```

Appcomponent ts file

```
TS app.module.ts M TS app.component.ts M <> app.component.html M X
src > app > <> app.component.html > input
1 | <h1>Interpolation</h1>
2
3 | <p>Message: {{appName}}</p>
4
5 | <input type="text" [value]="clientName">
```

app.component.html file



Interpolation

Message: This is an interpolation example! - Kenn Chester Ducut

- Style Binding and Class Binding

```
src > app > TS app.component.ts > AppComponent
5   templateUrl: './app.component.html',
6   styleUrls: ['./app.component.css']
7 })
8 export class AppComponent {
9   title = 'Prelim-Lab-4';
10
11   //Interpolation
12   appName = "This is an interpolation example! - Kenn Chester Ducut"
13
14   //Property Binding
15   clientName:string = "Kenn Chester";
16
17   //Style Binding with Class Binding
18   appliedCSSClass = "green";
19   notappliedCSSClass = false;
20   myColor = "red";
21 }
```

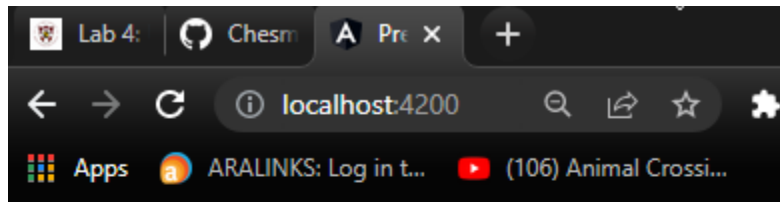
Appcomponent ts file

```
src > app > app.component.html > p
1 | <h1>Interpolation</h1>
2 |
3 | <p>Message: {{appName}}</p>
4 |
5 | <!--Property Binding-->
6 | <input type="text" [value]="clientName">
7 |
8 | <!--Style Binding-->
9 | <p [style.color]="myColor">Text color is styled using style binding. - Kenn Ducut</p>
10 |
11 | <!--Class Binding with Style Binding-->
12 | <p [class]="appliedCSSClass">This is styled using applied CSS class -Kenn Ducut</p>
13 |
14 | <p [class.blue]="notappliedCSSClass">No style binding applied in this line</p>
15 |
```

appcomponent html file

```
src > app > # app.component.css > .blue
1  .green {
2    color: green;
3  }
4  .blue {
5    color: blue;
6  }
```

App component css file



Interpolation

Message: This is an interpolation example! - Kenn Chester Ducut

Text color is styled using style binding. - Kenn Ducut

This is styled using applied CSS class -Kenn Ducut

No style binding applied in this line

Output

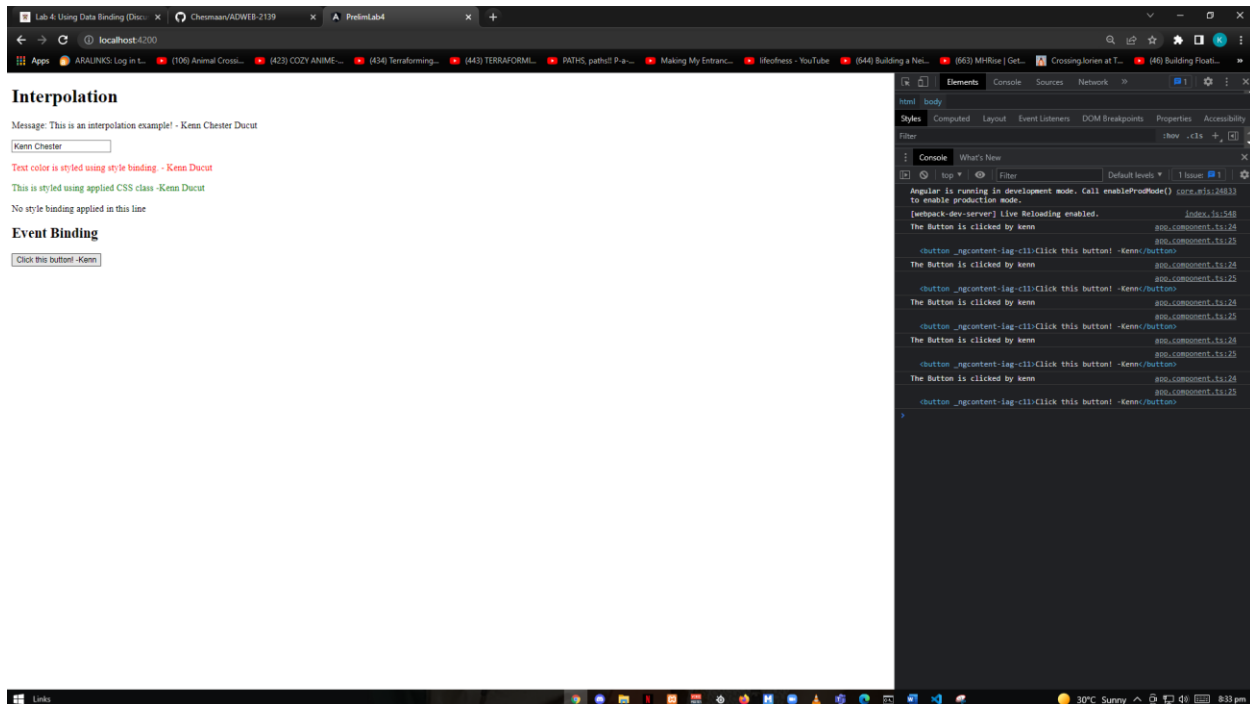
2. Two way binding
 - Events/Actions

```
//Event Binding
showData($event:any){
  console.log("The Button is clicked by kenn"); if($event){
    console.log($event.target);
  }
}
```

appcomponent ts file

```
16 <!--Event Binding-->
17 <h2>Event Binding</h2>
18 <button (click)="showData($event)">Click this button! -Kenn</button>
19
```

appcomponent html file



Output when the button is clicked

Another event binding using getData

```
getData((data:any))
{
  console.warn(data);
}

//Event Binding
showData($event:any){
  console.log("The Button is clicked by kenn"); if($event){
    console.log($event.target);
  }
}
```

app component ts file

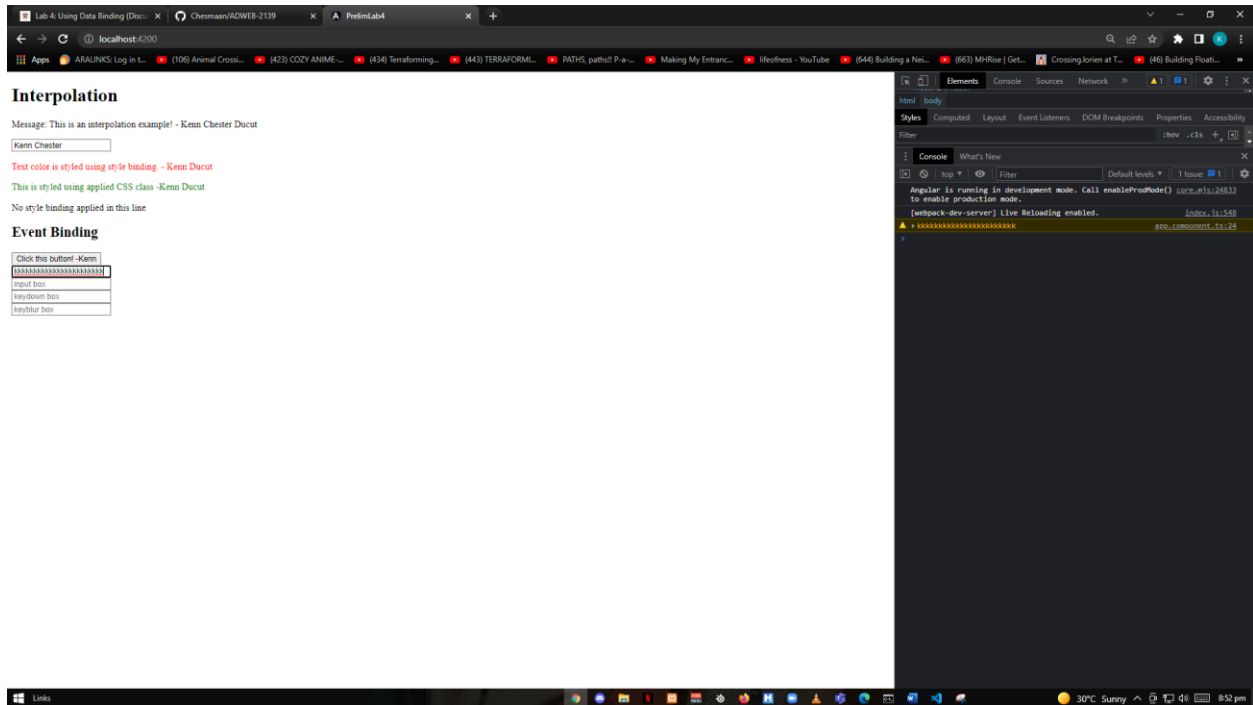
```
<!--Event Binding-->
<h2>Event Binding</h2>
<button (click)="showData($event)">Click this button! -Kenn</button>

<br>
<input type="text" #keyupbox placeholder="keyup box" (keyup)="getData(keyupbox.value)"/>
<br>
<input type="text" #keyinputbox placeholder="input box" (input)="getData(keyinputbox.value)"/>
<br>
<input type="text" #keydownbox placeholder="keydown box" (keydown)="getData(keydownbox.value)"/>
<br>
<input type="text" #keyblurbox placeholder="keyblur box" (keyup)="getData(keyblurbox.value)"/>
<br>

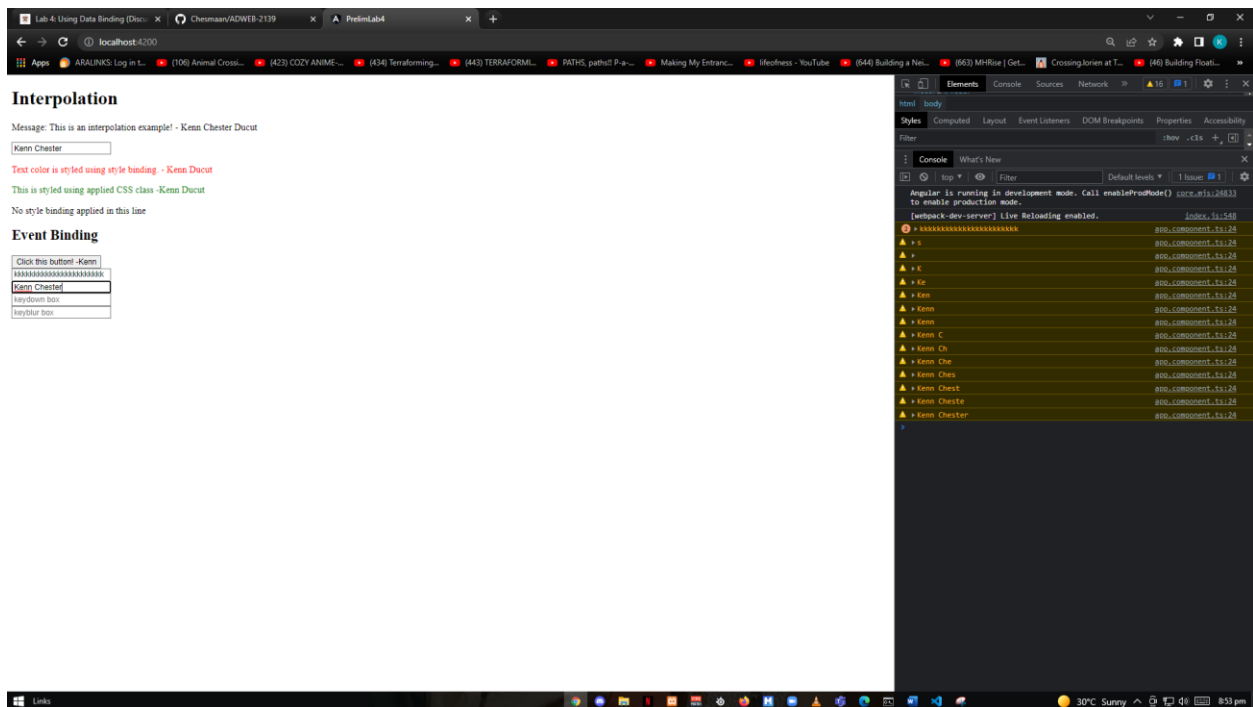
<!--Kenn Chester Ducut WD-302-->
```

app component html file

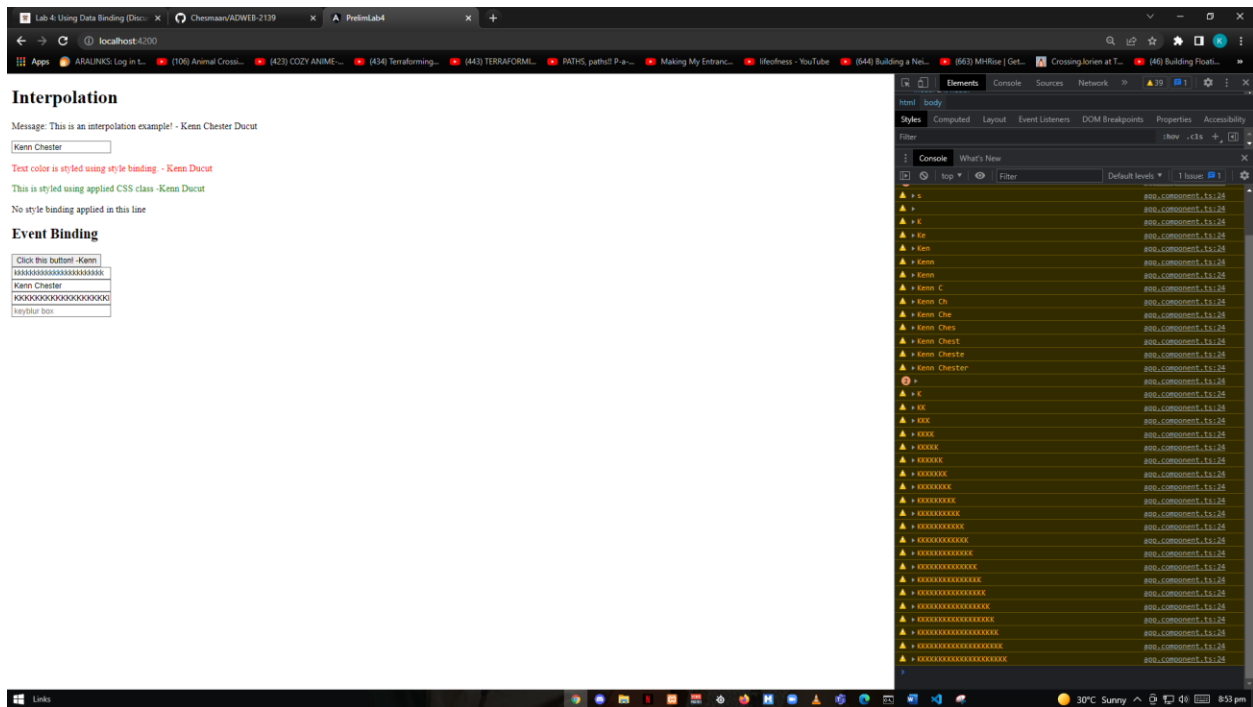
OUTPUTS:



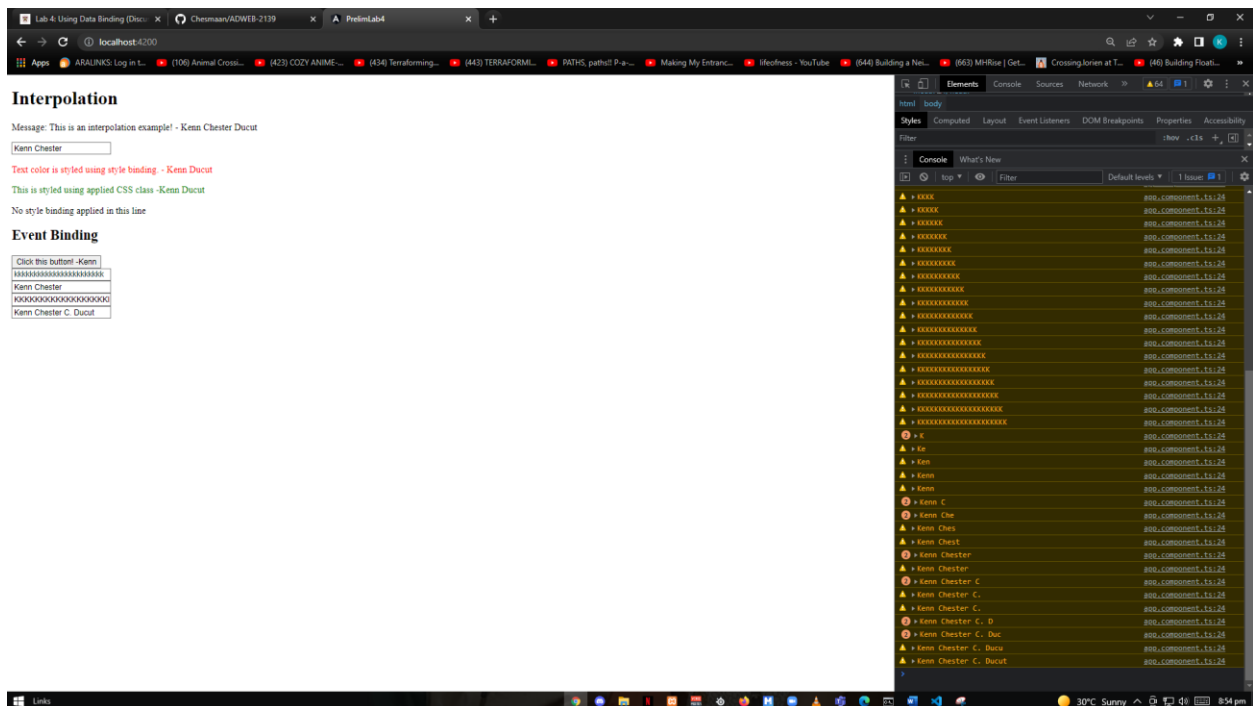
keyup box



input box



Keydown box



keyblur box

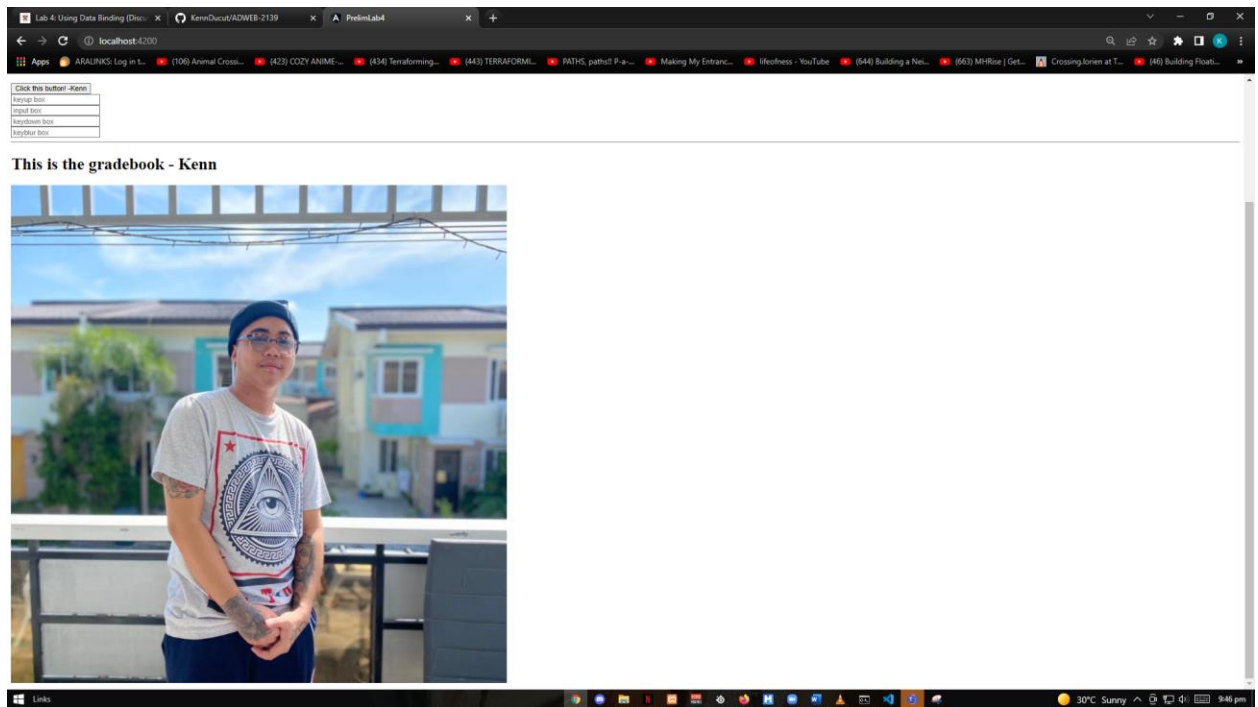
Image interpolation

```
<> gradebook.component.html U    TS gradebook.component.ts U X
src > app > gradebook > TS gradebook.component.ts > GradebookComponent > imageUrl
1  import { Component, OnInit } from '@angular/core';
2
3  @Component({
4    selector: 'app-gradebook',
5    templateUrl: './gradebook.component.html',
6    styleUrls: ['./gradebook.component.css']
7  })
8  export class GradebookComponent implements OnInit {}
9
10 //image Interpolation/binding
11 imageUrl:string="assets/images/pic2.jpg"
12
13
14
15 constructor() { }
16
17 ngOnInit(): void {
18 }
19
20 }
```

gradebook.component.ts file

```
<> gradebook.component.html U X    TS gradebook.component.ts U X
src > app > gradebook > <> gradebook.component.html > im
1  <hr>
2  <h1>This is the gradebook - Kenn</h1>
3
4  <img src={{imageUrl}}/>
5
```

gradebook component.html file



Output

Two way data binding

```
TS app.module.ts M X  <> gradebook.component.html U  TS gradebook.component.ts U
src > app > TS app.module.ts > AppModule
  1  import { NgModule } from '@angular/core';
  2  import { BrowserModule } from '@angular/platform-browser';
  3
  4  import { AppComponent } from './app.component';
  5  import { FormsModule } from '@angular/forms';
  6  import { GradebookComponent } from './gradebook/gradebook.component';
  7
  8  @NgModule({
  9    declarations: [
10      AppComponent,
11      GradebookComponent
12    ],
13    imports: [
14      BrowserModule,
15      FormsModule //from Forms module import
16    ],
17    providers: [],
18    bootstrap: [AppComponent]
19  })
20  export class AppModule { }
21
```

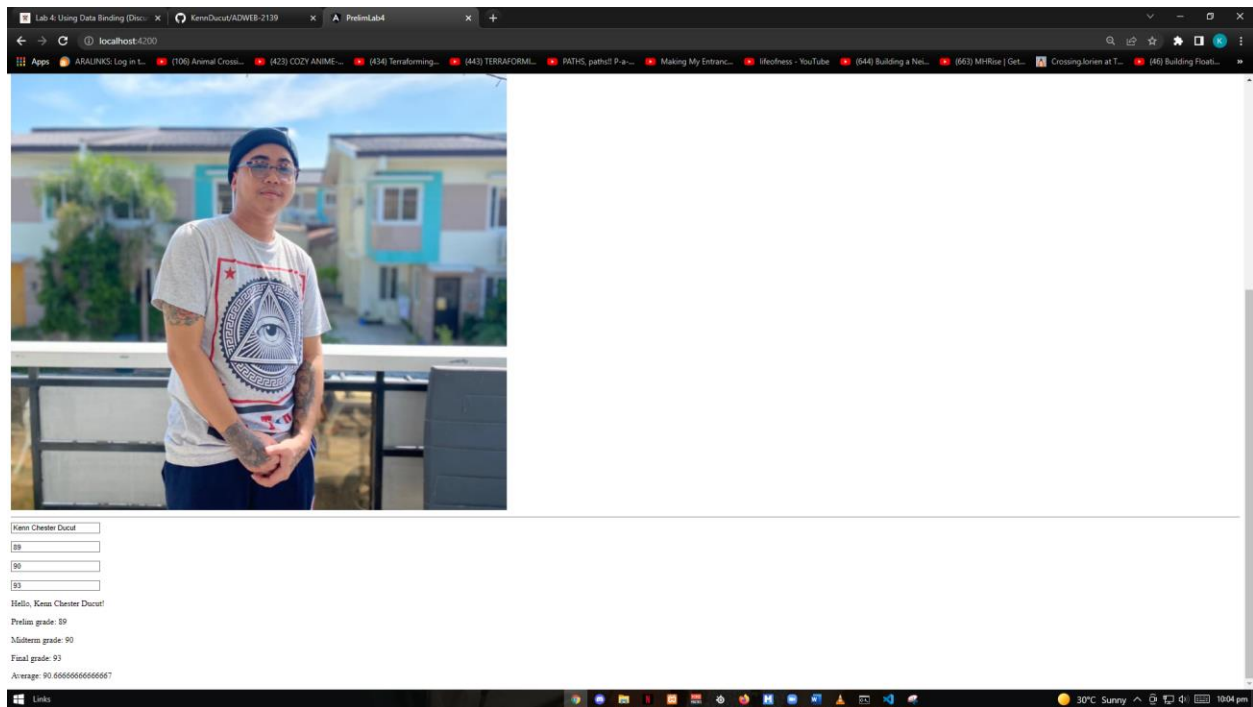
app.module to add the import

```
TS app.module.ts M  <> gradebook.component.html U  TS gradebook.component.ts U
src > app > gradebook > <> gradebook.component.html > ...
  1  <hr>
  2  <h1>This is the gradebook - Kenn</h1>
  3
  4  <img src={{imageUrl}}/>
  5
  6  <hr>
  7  <input type="text" [(ngModel)]="studName" />
  8  <p><input type="number" [(ngModel)]="prelim" class="form-control" placeholder="Prelim"></p>
  9  <p><input type="number" [(ngModel)]="midterm" class="form-control" placeholder="Midterm"></p>
10  <p><input type="number" [(ngModel)]="final" class="form-control" placeholder="Final"></p>
11
12  <p>Hello, {{studName}}!</p>
13  <p>Prelim grade: {{prelim}}</p>
14  <p>Midterm grade: {{midterm}}</p>
15  <p>Final grade: {{final}}</p>
16
17  <p>Average: {{(prelim+midterm+final)/3}}</p>
18
19  <!--Kenn Chester Ducut WD-302-->
20
```

gradebook component html file

```
TS app.module.ts M    <> gradebook.component.html U ●    TS gradebook.component.ts U X
src > app > gradebook > TS gradebook.component.ts > ...
1  import { Component, OnInit } from '@angular/core';
2
3  @Component({
4    selector: 'app-gradebook',
5    templateUrl: './gradebook.component.html',
6    styleUrls: ['./gradebook.component.css']
7  })
8  export class GradebookComponent implements OnInit {
9
10     //image Interpolation/binding
11     imageUrl:string="assets/images/pic2.jpg"
12
13     //two way data binding
14     studName="";
15     prelim=0;
16     midterm=0;
17     final=0;
18
19
20     constructor() { }
21
22     ngOnInit(): void {
23     }
24
25 }
26 // Kenn Chester Ducut WD-302
```

gradebook component ts file



Output

GitHub Link:

<https://github.com/KennDucut/ADWEB-2139.git>