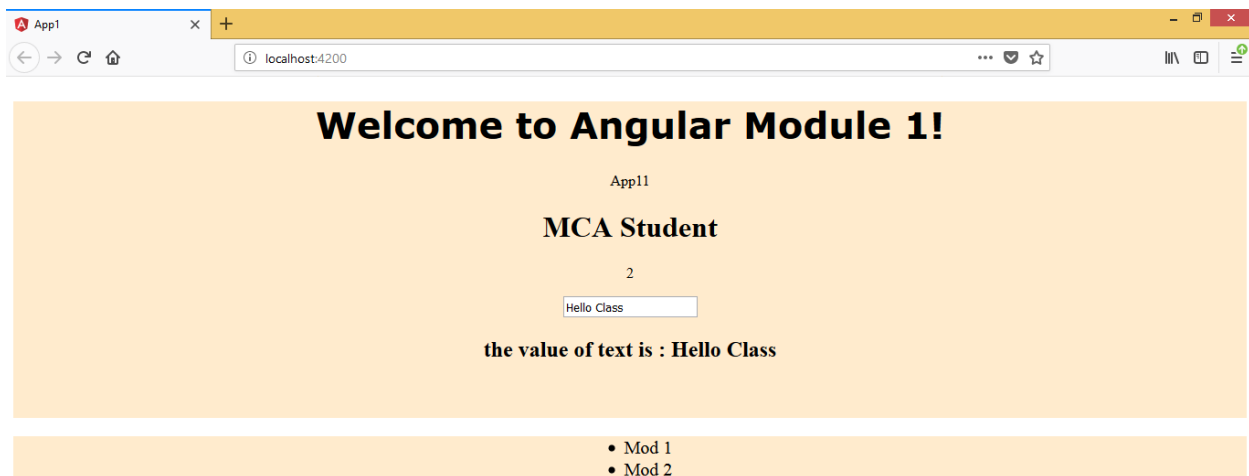Tasks:

1. **Title Change**
2. **Create new Component**
3. **Create a Class Student**
4. **Double Binding**
5. **String interpolation.**
6. **How to create method inside the class**
7. **Event Binding.**
8. **How to use ngif directory.**
9. **ng if else directory**
10. **ng for directory**
11. **ng style directory**

App.component.html:

```
<!--The content below is only a placeholder and can be replaced.-->
<div style="text-align:center">
  <h1>
    Welcome to {{ title }}!
  </h1>
  <app-app1></app-app1>
  <br><br>
</div>
<div>
  <ul>
```

```
    <li>Mod 1</li>
    <li>Mod 2</li>
  </ul>
</div>
```

App.module.ts:

```
import { BrowserModule } from '@angular/platform-browser';
import { NgModule } from '@angular/core';
import {FormsModule} from '@angular/forms';

import { AppComponent } from './app.component';
import { App1Component } from './app1/app1.component';

@NgModule({
  declarations: [
    AppComponent,
    App1Component
  ],
  imports: [
    BrowserModule, FormsModule
  ],
  providers: [],
  bootstrap: [AppComponent]
})
export class AppModule { }
```

app.component.css

```
h1{
    font-family: verdana;
    font-size: 40px;
}
div{
    background-color: blanchedalmond;
}
ul{
    font-size: 20px;
    text-align: center;
}
```

App1.component.html

```
<p>
  {{hero}}
```

```
</p>
<h1>{{student1.name}}</h1>
<p>{{student1.rollno}}</p>

<form name ="form1">
  <input type="text" name="distext" [(ngModel)] = 'distext'>
</form>

<h2>the value of text is : {{distext}}</h2>
```

App1.component.ts:

```
import { Component, OnInit } from '@angular/core';
import {students} from './students';
import {FormsModule} from '@angular/forms';
@Component({
  selector: 'app-app1',
  templateUrl: './app1.component.html',
  styleUrls: ['./app1.component.css']
})
export class App1Component implements OnInit {
  student1:students;
  distext="No";
  constructor(Form:FormsModule) {
    this.student1={
      name:'MCA Student',
      rollno:2
    };

  }
  hero = 'App11';
  ngOnInit() {
  }

}
```

Student.ts:

```
export class students
{
    public name:String;
    public rollno:Number;
}
```

Task 5: **String interpolation**

1. Create a new app
2. Add a new component Server
3. Add following code

Server.component.ts:

```typescript
import { Component, OnInit } from '@angular/core';
import { server } from './server';

@Component({
  selector: 'app-server',
  templateUrl: './server.component.html',
  styleUrls: ['./server.component.css'],
  providers:[server]
})
export class ServerComponent implements OnInit {
  public title ='Server Component - task 5 String interpolation';
  constructor(public ServerObj:server) {
   }

  ngOnInit() {
  }
}
```

Server.component.html

```html
<h2>
  {{title}}
  <br>
  {{ServerObj.connectionStaus}}
</h2>
<button (click)="ServerObj.connect()">Connect</button>
```

App.component.html

```html
<!--The content below is only a placeholder and can be replaced.-->
<div style="text-align:center">
  <h1>
    Welcome to {{ title }}!
  </h1>
  </div>
<div>
  <app-server></app-server>
</div>
```

Task 6 and 7 (How to create Method inside the class) and event

1) In server.component.ts add following code

```
2) import { Component, OnInit } from '@angular/core';
3) import { server } from './server';
4)
5) @Component({
6)    selector: 'app-server',
7)    templateUrl: './server.component.html',
8)    styleUrls: ['./server.component.css'],
9)    providers:[server]
10)})
11)export class ServerComponent implements OnInit {
12)   public title ='Server Component - task 5 String interpolation';
13)   constructor(public ServerObj:server) {
14)    }
15)
16)   ngOnInit() {
17)   }
18)}
```

Server.ts class

```
export class server{
    public connectionStaus;
    constructor(){
        this.connectionStaus="Not Connected";
    }
    public connect()
    {
        this.connectionStaus="Connected - task 6 and 7: Method calling";
    }

}
```

Server.component.html

```
<h2>
  {{title}}
  <br>
  {{ServerObj.connectionStaus}}
</h2>
<button (click)="ServerObj.connect()">Connect</button>
```
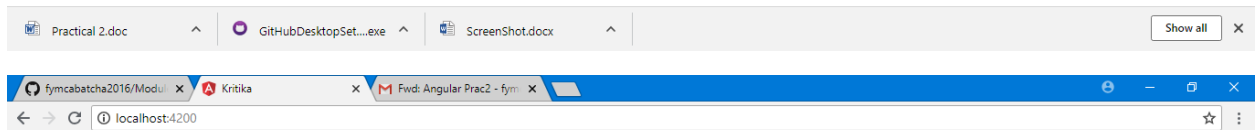
ScreenShot:

Task 8 and 9, ngif and ngif else

Server.component.ts code:

```
import { Component, OnInit } from '@angular/core';
import { server } from './server';
```

```
import {FormsModule} from '@angular/forms';
@Component({
  selector: 'app-server',
  templateUrl: './server.component.html',
  styleUrls: ['./server.component.css'],
  providers:[server]
})
export class ServerComponent implements OnInit {
  public title ='Server Component - task 5 String interpolation';
  public servername= "Server 1";
  public servercreated=false;
  public servercreationstatus = "No Server Created";
  constructor(public ServerObj:server) {
  }
  public oncreateserver()
  {
    this.servercreated=true;
    this.servercreationstatus="Server created task ngif ngifelse";
  }
  ngOnInit() {
  }
}
```

Server.component.html code:

```
<h2>
  {{title}}
  <br>
  {{ServerObj.connectionStaus}}
</h2>
<button (click)="ServerObj.connect()">Connect</button>
<br>
<br>
<p *ngIf="servercreated; else noServer">server is created and the servername is
{{servername}}</p>
<ng-template #noServer>
    <p>No server was created!!! else block</p>
 </ng-template>
<button (click)="oncreateserver()"> server </button>>
{{servercreationstatus}}
```

Task 10 for:

server.compoent.ts code:

```
export class ServerComponent implements OnInit {

  public userlist=["abc","def","efh"];
  public title ='Server Component - task 5 String interpolation';
```
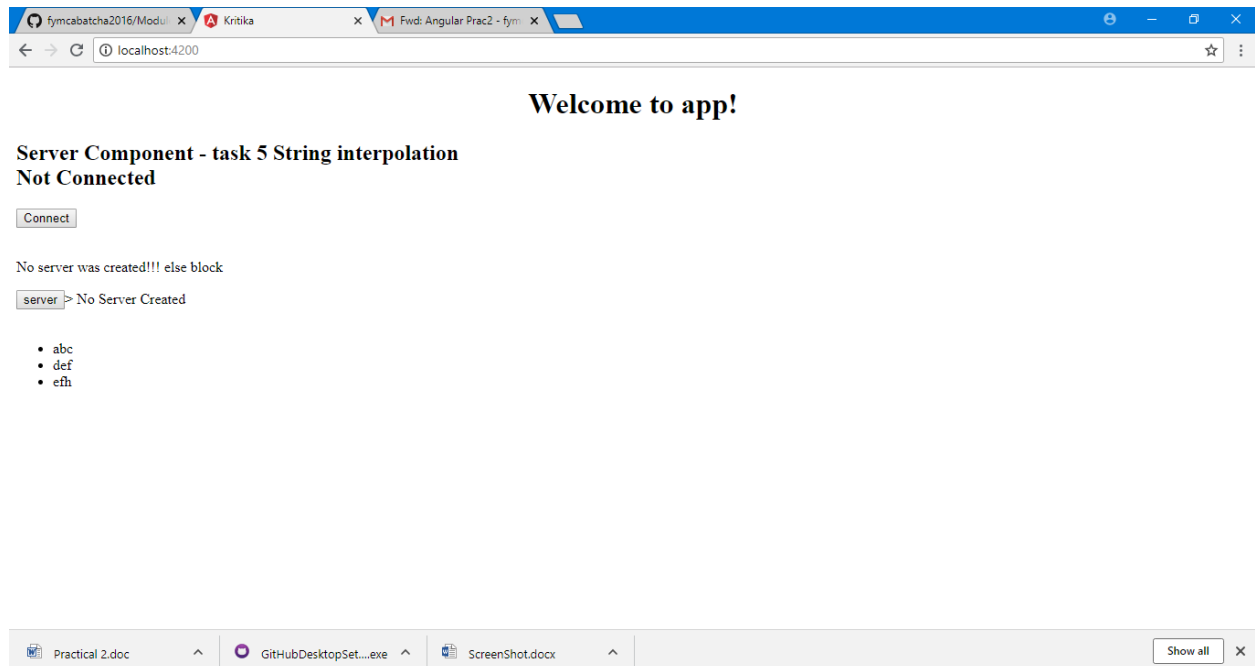
```
public servername= "Server 1";
public servercreated=false;
public servercreationstatus = "No Server Created";
constructor(public ServerObj:server) {
  }
```

Server.component.html

```
<ul>
  <li *ngFor='let a of userlist'>
    {{a}}
  </li>
</ul>
```

Screenshot:

Task 11 ng style:

Add Code in server.component.ts:

```
export class ServerComponent implements OnInit {

  public userlist=["abc","def","efh"];
  public title ='Server Component - task 5 String interpolation';
```

```
  public servername= "Server 1";
  public servercreated=false;
  public servercreationstatus = "No Server Created";
  public id:number=1001;
  public serverstatus1:string='offline';

  constructor(public ServerObj:server) {
    this.serverstatus1 = Math.random() > 0.5 ? 'online' : 'offline'
   }
   public getserverstatus(){
    return this.serverstatus1;
    }
  public getcolor(){
    return this.serverstatus1 === 'online' ? 'green' : 'red';
  }

   public oncreateserver()
   {
     this.servercreated=true;
     this.servercreationstatus="Server created task ngif ngifelse";
   }
  ngOnInit() {
   }
}
```

Add Server.component.html

```
<p [ngStyle]="{backgroundColor: getcolor()}">{{'server'}} with id {{id}} is
{{getserverstatus()}}</p>
```

Welcome to app!

Server Component - task 5 String interpolation
Not Connected

Connect

No server was created!!! else block

server > No Server Created

- abc
- def
- efh

server with id 1001 is offline

Welcome to app!

Server Component - task 5 String interpolation
Not Connected

Connect

No server was created!!! else block

server > No Server Created

- abc
- def
- efh

server with id 1001 is online