NODE JS PROGRAM

TO show date and time pro.

Getdatetime.js

```
var date_Time = new Date();
console.log(date_Time);

module.exports = date_Time;
```

getdatetime.js

```
const datetimeadded = require('./getdatetime')


console.log(datetimeadded.date_Time);
```

output:

PS E:\Nodejs Program> node indes.js

2022-09-06T18:28:35.227Z

Undefined

Built in modules to split the query string program

```
const querystring = require('querystring');
const qs = "code=string&key=12&id=false";

console.log(querystring.parse(qs));
```

Output:

node querystring.js

{ code: 'string', key: '12', id: 'false' }

Program nPM which will covert entered string into either case

```
var user = "Venkatesh Pen";

const upperCase = user.toUpperCase();
console.log(upperCase); // -> TO A STRING

const lowerCase = user.toLowerCase();
console.log(lowerCase); // -> to a string
```

output

PS E:\Nodejs Program> node npm.js

VENKATESH PEN

venkatesh pen

Node js program calculator

```
const argvs = process.argv
const argv = argvs.slice(2)
const operation = argv[0]
const operator1 = parseInt(argv[1])
const operator2 = parseInt(argv[2])
if (operation === 'add') {
    console.log(operation + ' is ' + (operator1 + operator2))
}
if (operation === 'subtraction') {
    console.log(operation + ' is ' + (operator1 - operator2))
}
if (operation === 'multipy') {
    console.log(operation + ' is ' + (operator1 * operator2))
}
if (operation === 'divide') {
    console.log(operation + ' is ' + (operator1 / operator2))
}
```

Output

PS E:\Nodejs Program> node cal.js add 4 5

add is 9

ANGULAR PROGRAM

Form validation program in angular

Html file

Pro :-

```
<div class="text-center">
   <form #form="ngForm" (submit)="logForm(form.value)">
      <div class="mb-3">
         <label>Email address</label>
```

```html
      <input name="email" #email="ngModel" required minlength="5" type="email"
class="form-control" ngModel>

        <span *ngIf="email.touched && email.invalid" class="alert alert-danger"
style="background-color:red;">

        Email is required!

      </span>

        <span *ngIf="email?.errors?.['minlength']" class="alert alert-danger"
style="background-color:red;">

        Invalid Email! Min 5 characters

      </span>

    </div>


    <div class="mb-3">

      <label>Password</label>

      <input name="password" required type="password" class="form-control"
#pass="ngModel" ngModel>

      <span *ngIf="pass.touched && pass.invalid" class="alert alert-danger"
style="background-color:red;">

        Password is required!

      </span>

    </div>


    <button [disabled]="form.invalid" type="submit" class="btn btn-
primary">Submit</button>

  </form>

</div>
```

App.component file program

```typescript
import { NgModel } from '@angular/forms';

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

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

@Component({
```

```
  selector: 'app-root',

  templateUrl: './app.component.html',

  styleUrls: ['./app.component.css']

})


export class AppComponent {

 title = 'validation';

 logForm(value: any) {

   console.log(value);

 }

}
```

App.modules program

```
import { NgModule } from '@angular/core';

import { BrowserModule } from '@angular/platform-browser';


import { AppRoutingModule } from './app-routing.module';

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

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



@NgModule({

 declarations: [

   AppComponent

 ],

 imports: [

   BrowserModule,

   AppRoutingModule,

   FormsModule

 ],

 providers: [],
```
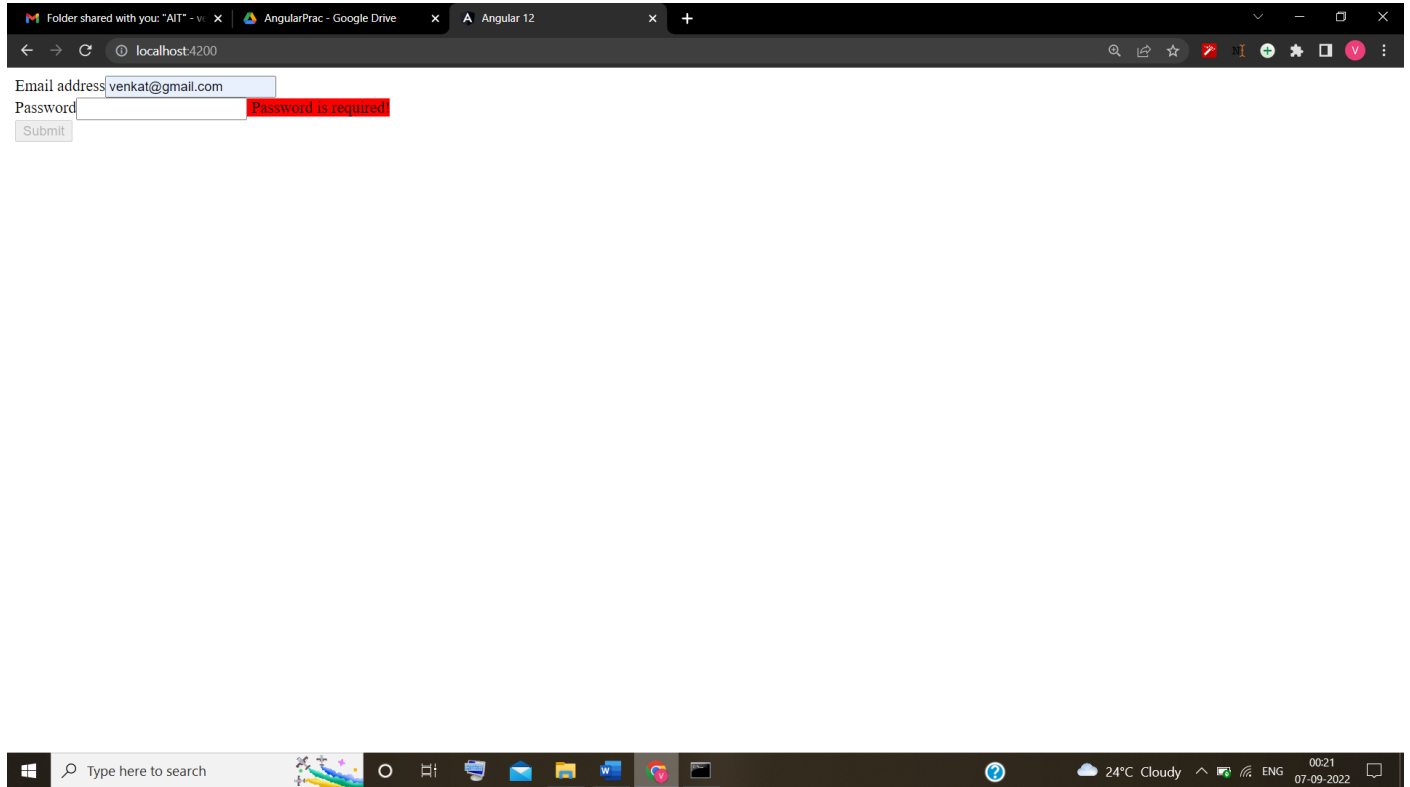
bootstrap: [AppComponent]

})

export class AppModule { }

output

ng serve

Program for ngif ngfor ngswitch

Html file program

{{title_if}}

<p *ngIf="length > 10"> Length more than 10</p>

{{title_for}}

   <li *ngFor="let name of Students">{{name}}

{{title_switch}}

<div [ngSwitch]="colorSelected"> The color selected is

```
  <div *ngSwitchCase="'red'"> Red </div>

  <div *ngSwitchCase="'green'"> Green</div>

  <div *ngSwitchCase="'black'"> Black</div>

  <div *ngSwitchDefault> No Color Selected </div>

</div>
```

App.component.ts file program
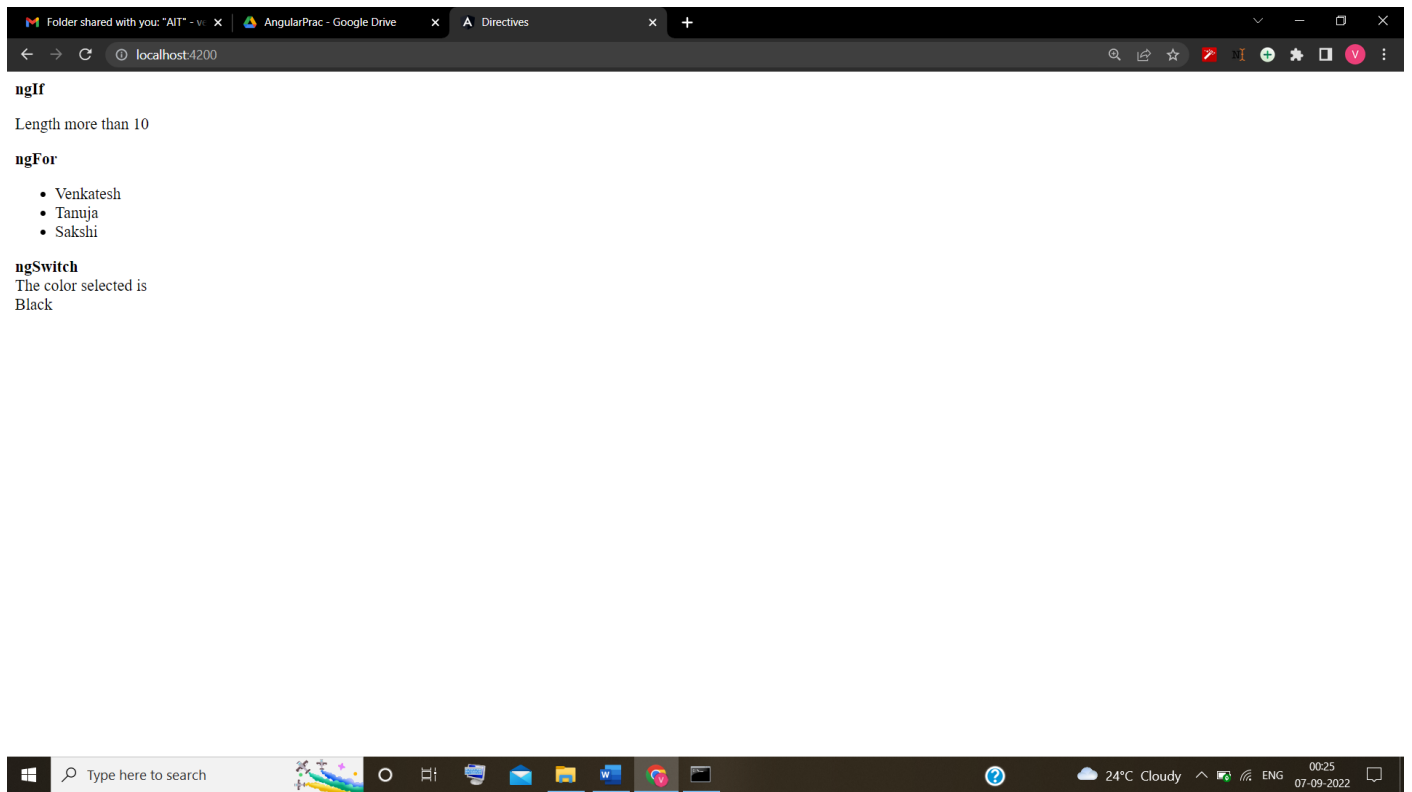
```
import { Component } from '@angular/core';


@Component({
  selector: 'app-root',
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
  title = 'directives';
  title_if = "ngIf";
  length = 20;


  // ng for
  title_for = "ngFor";
  Students : any[]  = ["Venkatesh","Tanuja","Sakshi"];


// ng switch
  title_switch = "ngSwitch";
  colorSelected : string = 'black';
}
```

Output

Ng serve

Angular project which has html template and handle the click event on event

Html program

```
<form>

    Enter Name :

    <input type="text" name="name" #name> <br> Enter Email :

    <input type="email" name="email" #email> <br> Enter Phone number :

    <input type="tel" name="phone"> <br>


    <button type="button" (click)="display(name.value)">Save</button>


</form>
```
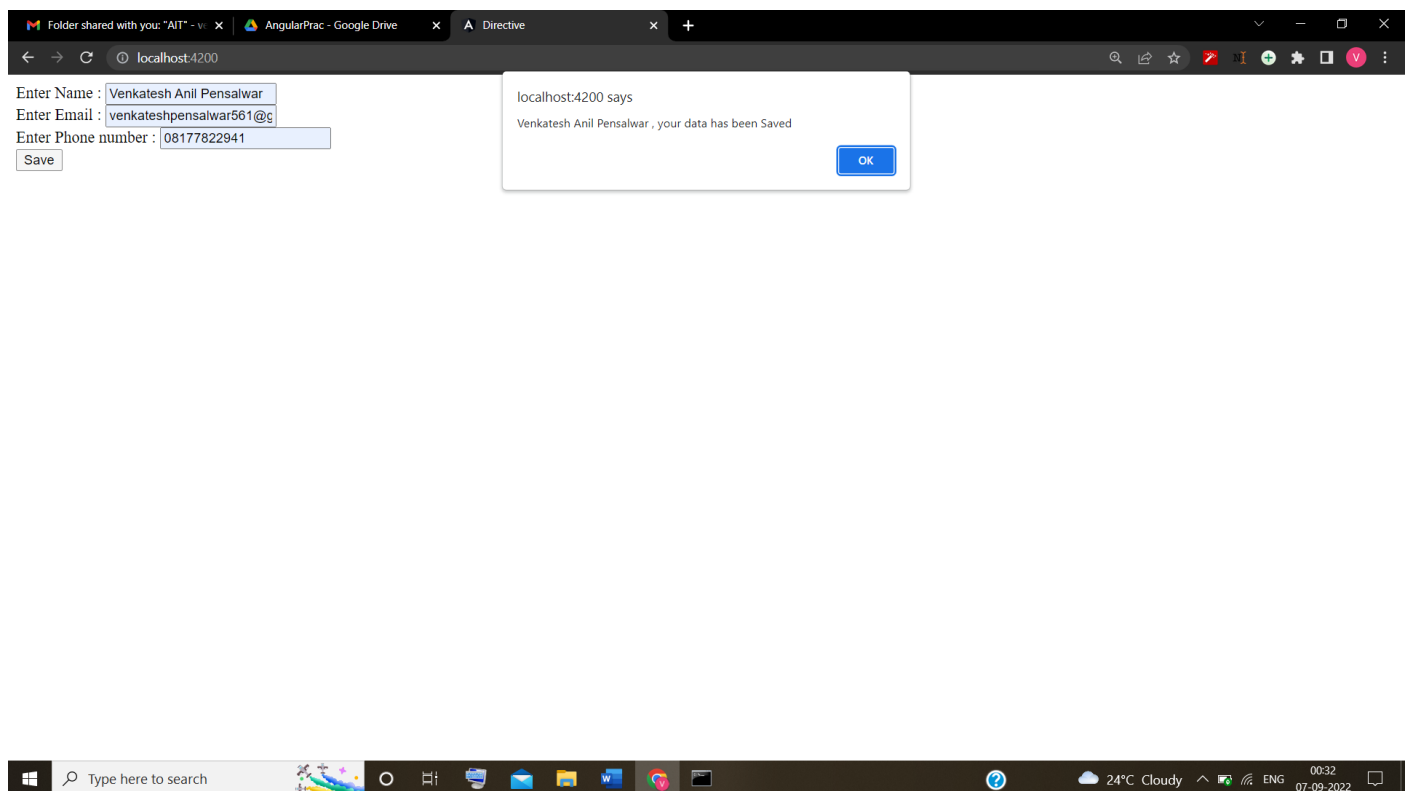
App.component.ts file program

```
import { Component } from '@angular/core';


@Component({
  selector: 'app-root',
```

```
  templateUrl: './app.component.html',
  styleUrls: ['./app.component.css']
})
export class AppComponent {
 title = 'directive';
 display(name:string ) {
   console.log('Name : ',name);
   alert(`${name} , your data has been Saved`)
  }
}
```

Output

Ng serve

Component directive program – structural and attribute directives

Html file program

Progrma

STRUCTURAL DIRECTIVE

*ngIf

<p *ngIf="length > 10"> Length more than 10</p>

*ngFor

   <li *ngFor="let name of Students">{{name}}

*ngSwitch

<div [ngSwitch]="colorSelected"> The color selected is

   <div *ngSwitchCase="'red'"> Red </div>

   <div *ngSwitchCase="'green'"> Green</div>

   <div *ngSwitchCase="'black'"> Black</div>

   <div *ngSwitchDefault> No Color Selected </div>

</div>

ATTRIBUTE DIRECTIVE

<p [ngStyle]="{'background':var_bg}">This is done using [ngStyle]</p>

<div [ngClass]="'class_name'">This is ng class. Class name is given in a element and property is given a in css file.</div>

App.component.ts file program :

Program

import { Component } from '@angular/core';

@Component({

  selector: 'app-root',

```
  templateUrl: './app.component.html',

  styleUrls: ['./app.component.css']

})

export class AppComponent {

 title = 'componentdirective';



  length = 20;


  Students : any[]  = ["Venkatesh","Tanuja","Sakshi"];


   colorSelected : string = 'black';


   var_bg = 'red';

}
```

Output:

Ng serve