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Practical 7
Aim:Angular JS advance practice problems

Step 1

```
1.  npm install -g @ionic/cli
2.
3.  ionic start myApp blank
4.
5.  cd myApp
6.
7.  npm install --save @fullcalendar/angular @fullcalendar/daygrid
8.
9.  npm i @fullcalendar/interaction
```

```
Microsoft Windows [Version 10.0.19043.1165]
(c) Microsoft Corporation. All rights reserved.

C:\Users\sangh>D:

D:\>ionic start Calendar blank

Pick a framework!

Please select the JavaScript framework to use for your new app. To bypass this prompt next time, supply a value for the
--type option.

? Framework: Angular
√ Preparing directory .\Calendar - done!
√ Downloading and extracting blank starter - done!

Installing dependencies may take several minutes.

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      Ionic Studio, a powerful, local editor made with love by Ionic

                Lightning fast app creation
          Quickest & easiest way to get started with Ionic

          Learn more: https://ion.link/studio

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> npm.cmd i
npm WARN deprecated flatten@1.0.3: flatten is deprecated in favor of utility frameworks such as lodash.
npm WARN deprecated urix@0.1.0: Please see https://github.com/lydell/urix#deprecated
npm WARN deprecated har-validator@5.1.5: this library is no longer supported
npm WARN deprecated resolve-url@0.2.1: https://github.com/lydell/resolve-url#deprecated
npm WARN deprecated chokidar@2.1.8: Chokidar 2 will break on node v14+. Upgrade to chokidar 3 with 15x less dependencies.
npm WARN deprecated querystring@0.2.0: The querystring API is considered Legacy. new code should use the URLSearchParams API instead.
npm WARN deprecated uuid@3.4.0: Please upgrade  to version 7 or higher.  Older versions may use Math.random() in certain circumstances, which is known to be problematic.  See
details.
npm WARN deprecated uuid@3.4.0: Please upgrade  to version 7 or higher.  Older versions may use Math.random() in certain circumstances, which is known to be problematic.  See
details.
npm WARN deprecated uuid@3.4.0: Please upgrade  to version 7 or higher.  Older versions may use Math.random() in certain circumstances, which is known to be problematic.  See
details.
npm WARN deprecated request@2.88.2: request has been deprecated, see https://github.com/request/request/issues/3142

added 1618 packages, and audited 1619 packages in 2m

132 packages are looking for funding
  run `npm fund` for details
```

```
[INFO] Next Steps:

        - Go to your newly created project: cd .\Calendar
        - Run ionic serve within the app directory to see your app
        - Build features and components: https://ion.link/scaffolding-docs
        - Run your app on a hardware or virtual device: https://ion.link/running-docs


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          Ionic CLI update available: 5.4.16 → 6.16.3

      The package name has changed from ionic to @ionic/cli!


            To update, run: npm uninstall -g ionic
                Then run: npm i -g @ionic/cli


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D:\>cd .\Calendar

D:\Calendar>npm install --save @fullcalendar/angular @fullcalendar/daygrid

added 5 packages, and audited 1624 packages in 7s

133 packages are looking for funding
  run `npm fund` for details

5 moderate severity vulnerabilities

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.
```
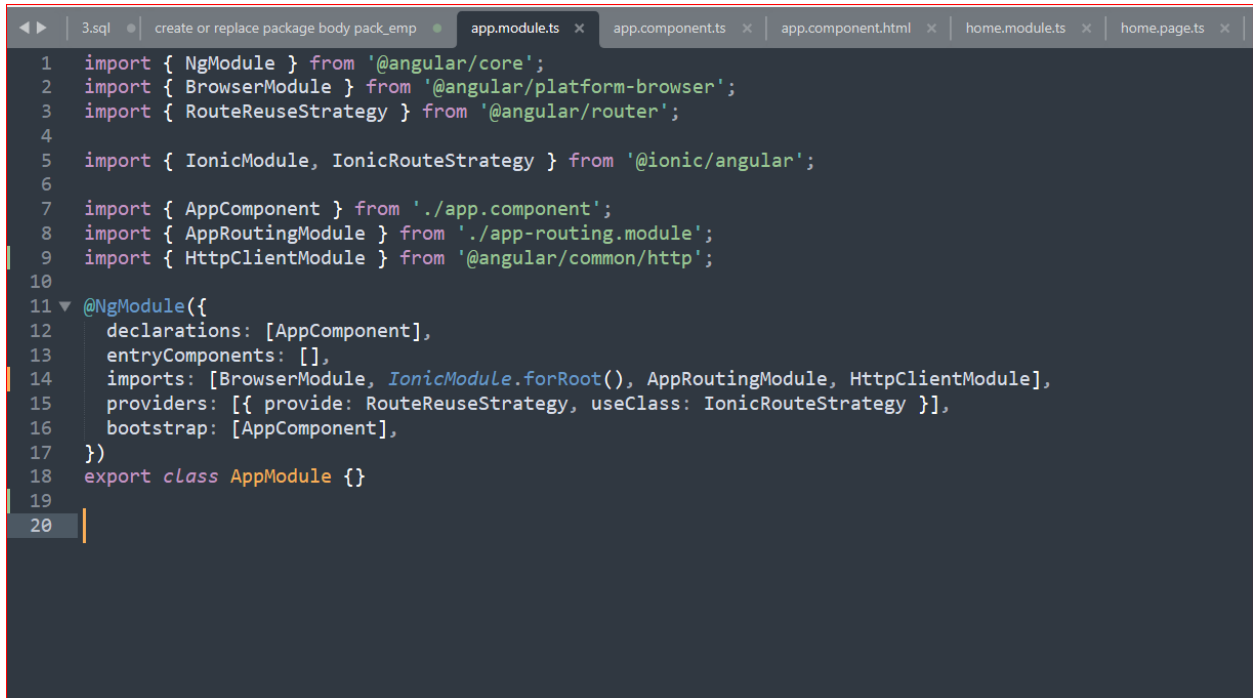
```
D:\Calendar>npm i @fullcalendar/interaction

added 1 package, and audited 1625 packages in 4s

133 packages are looking for funding
  run `npm fund` for details

5 moderate severity vulnerabilities

Some issues need review, and may require choosing
a different dependency.

Run `npm audit` for details.

D:\Calendar>ionic serve
> ng.cmd run app:serve --host=localhost --port=8100
[ng] - Generating browser application bundles (phase: setup)...
[ng] Compiling @angular/core : es2015 as esm2015
[ng] Compiling @angular/common : es2015 as esm2015
[ng] Compiling @fullcalendar/angular : es2015 as esm2015
[ng] Compiling @angular/platform-browser : es2015 as esm2015
[ng] Compiling @angular/router : es2015 as esm2015
```

```
[ng] √ Browser application bundle generation complete.
[ng] 61 unchanged chunks
[ng] Build at: 2021-08-19T14:35:26.064Z - Hash: 4870952503369457aca3 - Time: 2751ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] 61 unchanged chunks
[ng] Build at: 2021-08-19T14:37:42.829Z - Hash: 4870952503369457aca3 - Time: 592ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] Initial Chunk Files | Names |    Size
[ng] main.js             | main  | 16.47 kB
[ng] 60 unchanged chunks
[ng] Build at: 2021-08-19T14:37:44.716Z - Hash: 08f8bafba13a0254d903 - Time: 770ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] 61 unchanged chunks
[ng] Build at: 2021-08-19T14:37:45.942Z - Hash: 08f8bafba13a0254d903 - Time: 426ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] 61 unchanged chunks
[ng] Build at: 2021-08-19T14:37:47.302Z - Hash: 08f8bafba13a0254d903 - Time: 520ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] Initial Chunk Files | Names |    Size
[ng] main.js             | main  | 16.48 kB
[ng] 60 unchanged chunks
[ng] Build at: 2021-08-19T14:38:13.352Z - Hash: 979bc5c35b5fe2e95c9a - Time: 355ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] 61 unchanged chunks
[ng] Build at: 2021-08-19T14:40:14.898Z - Hash: 979bc5c35b5fe2e95c9a - Time: 379ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] Lazy Chunk Files       | Names |    Size
[ng] src_app_home_home_module_ts.js | -     | 815.54 kB
[ng] 60 unchanged chunks
[ng] Build at: 2021-08-19T14:40:35.111Z - Hash: 83c0d61edcd69add4d41 - Time: 621ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] Initial Chunk Files | Names |    Size
[ng] main.js             | main  | 16.51 kB
[ng] 60 unchanged chunks
[ng] Build at: 2021-08-19T14:55:15.930Z - Hash: 49110af2f3abc2904450 - Time: 595ms
[ng] √ Compiled successfully.
[ng] √ Browser application bundle generation complete.
[ng] Initial Chunk Files | Names |    Size
[ng] main.js             | main  | 16.48 kB
[ng] 60 unchanged chunks
[ng] Build at: 2021-08-19T14:55:30.129Z - Hash: 83c0d61edcd69add4d41 - Time: 547ms
```

Step 2

App.module.ts file:

```typescript
import { NgModule } from '@angular/core';
import { BrowserModule } from '@angular/platform-browser';
import { RouteReuseStrategy } from '@angular/router';

import { IonicModule, IonicRouteStrategy } from '@ionic/angular';

import { AppComponent } from './app.component';
import { AppRoutingModule } from './app-routing.module';
import { HttpClientModule } from '@angular/common/http';

@NgModule({
  declarations: [AppComponent],
  entryComponents: [],
  imports: [BrowserModule, IonicModule.forRoot(), AppRoutingModule, HttpClientModule],
  providers: [{ provide: RouteReuseStrategy, useClass: IonicRouteStrategy }],
  bootstrap: [AppComponent],
})
export class AppModule {}
```

App.Component.ts file:

```typescript
1  import { Component } from '@angular/core';
2  import { HttpClientModule } from '@angular/common/http';
3  @Component({
4      selector: 'app-root',
5      templateUrl: 'app.component.html',
6      styleUrls: ['app.component.scss'],
7  })
8  export class AppComponent {
9      constructor() {}
10 }
11
```

Home.Module.ts file:

```typescript
1  import { NgModule } from '@angular/core';
2  import { CommonModule } from '@angular/common';
3  import { IonicModule } from '@ionic/angular';
4  import { FormsModule } from '@angular/forms';
5  import { HomePage } from './home.page';
6
7  import { HomePageRoutingModule } from './home-routing.module';
8  import { HttpClientModule } from '@angular/common/http';
9
10 import { FullCalendarModule } from '@fullcalendar/angular';
11 import dayGridPlugin from '@fullcalendar/daygrid';
12 import interactionPlugin from '@fullcalendar/interaction';
13 FullCalendarModule.registerPlugins([
14     dayGridPlugin,
15     interactionPlugin
16 ]);
17
18 @NgModule({
19     imports: [
20         CommonModule,
21         FormsModule,
22         IonicModule,
23         HomePageRoutingModule,
24         HttpClientModule,
25         FullCalendarModule
26     ],
27     declarations: [HomePage]
28 })
29 export class HomePageModule {}
30
31
```

Home.Page.ts file:

```
create procedure pro2(a OUT int)   create or replace package body pack_emp   app.module.ts   home.page.ts   app.component.ts

 1   import { Component } from '@angular/core';
 2   import { HttpClient } from '@angular/common/http';
 3   import { CalendarOptions } from '@fullcalendar/angular'; // useful for typechecking
 4
 5   @Component({
 6       selector: 'app-home',
 7       templateUrl: 'home.page.html',
 8       styleUrls: ['home.page.scss'],
 9   })
10   export class HomePage {
11
12   events = [];
13       calendarOptions: CalendarOptions;
14       constructor( private http:HttpClient){}
15
16
17       ngOnInit() {
18
19           //web api calling to get dynamic events
20       this.http.get('http://localhost/events.php').subscribe(data => {
21           this.events.push(data);
22
23           //calendar settings
24           this.calendarOptions = {
25           initialView: 'dayGridMonth',
26           events: this.events[0]};
27
28
29   });
30       }
31
32
33   }
```

Home.Page.html file:

```
create procedure pro2(a OUT int)   create or replace package body pack_emp   events.php   home.page.html

 1   <ion-content [fullscreen]="true">
 2
 3   <full-calendar [options]="calendarOptions"></full-calendar>
 4
 5   </ion-content>
```

Now we need to create file events.php inside our xampp/htdocs folder and add below code inside users.php file:

events.php & users.php file has same code given:

```php
<?php
header('Access-Control-Allow-Origin: *');
header('Access-Control-Allow-Credentials: true');
header('Access-Control-Allow-Methods:POST,GET,PUT,DELETE');
header('Access-Control-Allow-Headers: content-type or other');
header('Content-Type: application/json');
  $events = array(
   array('title' => 'Event1','start' => '2021-06-25'), array('title' => 'Event2','start' => '2021-06-26'),
   array('title' => 'Event3','start' => '2021-06-27'));

  echo json_encode($events);
  die();
?>
```

Output:

```
[{"title":"Event1","start":"2021-06-25"},{"title":"Event2","start":"2021-06-26"},{"title":"Event3","start":"2021-06-27"}]
```

June 2021

today   ‹   ›

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25 Event1	26 Event2
27 Event3	28	29	30	1	2	3
4	5	6	7	8	9	10

June 2021

today   ‹   ›

Sun	Mon	Tue	Wed	Thu	Fri	Sat
30	31	1	2	3	4	5
6	7	8	9	10	11	12
13	14	15	16	17	18	19
20	21	22	23	24	25 Event1	26 Event2
27 Event3	28	29	30	1	2	3
4	5	6	7	8	9	10