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

import { **Observable } from 'rxjs/Observable';**

import 'rxjs/Rx';

import { Observer } **from 'rxjs/Observer';**

import { Subscription } **from 'rxjs/Subscription';**

@Component({

selector: 'app-home',

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

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

})

export class **HomeComponent** implements OnInit, OnDestroy {

numbersObsSubscription: Subscription;

customObsSubscription: Subscription;

constructor() { }

ngOnInit() {

const myNumbers = **Observable**.**interval**(1000)

.map(

(data: number) => {

return data \* 2;

}

);

this.numbersObsSubscription = myNumbers.**subscribe**(

(number: number) => {

console.log(number);

});

const myObservable = **Observable.create((observer: Observer<string>) => {**

setTimeout(() => {

observer.next('first package');

}, 2000);

setTimeout(() => {

**observer.next**('second package');

}, 4000);

setTimeout(() => {

// observer.error('this does not work');

**observer.complete();**

}, 5000);

setTimeout(() => {

**observer.next**('third package');

}, 6000); });

this.customObsSubscription = myObservable.subscribe(

(data: string) => { console.log(data); },

(error: string) => { console.log(error); },

() => { console.log('completed'); }

); }

ngOnDestroy() {

**this.numbersObsSubscription.unsubscribe();**

**this.customObsSubscription.unsubscribe();**

}

}----------------------------------------------------

import { Subject } from 'rxjs/Subject';

export class UsersService {

userActivated = new Subject();

}---------------------------------------------------

export class AppComponent implements OnInit {

user1Activated = false;

user2Activated = false;

constructor(private usersService: UsersService) {}

ngOnInit() {

**this.usersService.userActivated.subscribe(**

(id: number) => {

if (id === 1) {

**this.user1Activated = true;**

} else if (id === 2) {

this.user2Activated = true;}});}}

------app.component.html

<div class="container">

<div class="row">

<div class="col-xs-12 col-sm-10 col- -8 col-sm-offset-1 col-md-offset-2">

<a routerLink="/">Home</a>

<a [routerLink]="['user', 1]">User 1 {{ **user1Activated** ? '(activated)' : '' }}</a>

<a [routerLink]="['user', 2]">User 2 {{ **user2Activated** ? '(activated)' : '' }}</a>

</div>

</div>

<hr>

<div class="row">

<div class="col-xs-12 col-sm-10 col- -8 col-sm-offset-1 col-md-offset-2">

<router-outlet></router-outlet>

</div>

</div>

</div>

export class UserComponent implements OnInit { id: number;

constructor(private route: ActivatedRoute, private usersService: UsersService) { }

ngOnInit() {

this.route.params

.**subscribe**(

(**params: Params)** => {

this.id = +params['id'];

}

);

}

**onActivate**() {

this.usersService.userActivated.**next**(this.id);

}}

-------------user.component.html

<p>User with <strong>ID {{ id }}</strong> was loaded</p>

<button class="btn btn-primary" (click)="**onActivate**()">Activate!</button>