

Name: Tushar Panchal

En.No: 21162101014

**Sub: FET(Front End Technologies)** 

**Branch: CBA** 

Batch:41

-----PRACTICAL 15------

## **❖ Objective**:

To understand the concept of observables in Angular.

## **Exercise:**

Consider a stream of numbers to be generated using an observable, subscribe to the stream and log only the even numbers from the stream on console.

You should include next, complete and error methods of the observables.

- > GITHUB LINK: https://github.com/Tushar007079/FET-PRACTICALS/tree/main/15
  - √ app.component.html:

<app-even-numbers></app-even-numbers>

- <u>Using ng generate component</u>: I created <u>even-numbers-component</u>
  - ✓ even-numbers-component.component.html :

```
<h2>E</h2>
               </span>
               <span style="--i:2">
                 <h2>V</h2>
               </span>
               <span style="--i:3">
                 <h2>E</h2>
               </span>
               <span style="--i:4">
                 <h2>N</h2>
               </span>
               <span style="--i:5">
                 <h2>-</h2>
               </span>
               <span style="--i:6">
                 <h2>N</h2>
               </span>
               <span style="--i:7">
                 <h2>U</h2>
               </span>
               <span style="--i:8">
                   <h2>M</h2>
                 </span>
               <span style="--i:9">
                 <h2>B</h2>
               </span>
               <span style="--i:10">
                   <h2>E</h2>
                 </span>
                 <span style="--i:11">
                   <h2>R</h2>
                 </span>
                 <span style="--i:12">
                   <h2>S</h2>
                 </span>
           </div>
         </div>
    </body>
</html>
<div class="main-div main-div1">
  {{ num }}
  </div>
```

## ✓ even-numbers-component.component.ts :

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

```
@Component({
  selector: 'app-even-numbers',
  templateUrl:'./even-numbers-component.component.html',
  styleUrls: ['./even-numbers-component.css']
export class EvenNumbersComponent {
  evenNumbers: number[] = [];
  constructor() {
    const numbers$: Observableconst numbers$: Observableconst numbers$: Observableconst numbers$: Observable
      let count = 0;
      setInterval(() => {
        count++;
        observer.next(count);
      }, 1000);
    });
    const subscription = numbers$.subscribe({
      next: (num) => {
        if (num % 2 === 0) {
          this.evenNumbers.push(num);
        }
      },
      complete: () => {
        console.log('Stream completed');
      },
      error: (err) => {
        console.error('An error occurred:', err);
      },
    });
 }
```

## ✓ Output:

EVEN-NUMBERS	
	2
	4
	6
	8
	10
	12
	14
	16

28
30
32
34
36
38
40
42
44
46
48