Name - Yash Lakhtariya
Enrollment number - 21162101012
Branch - CBA Batch - 41
FET Practical 15
Code Link for all practicals:
https://github.com/yashslakhtariya/sem4practicals/tree/main/FET

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.

Structure:

main project: angular_practicals

component: prac15

HTML (prac15.component.html):

```
<h1> Number streaming from 0 to 50 on console </h1>
<h1> Even numbers of the range are logged (subscribed) </h1>
```

CSS (prac15.component.css):

```
h1
{
    margin-top: 20%;
    text-align: center;
    color: #b75969;
    font-size: 50px;
    font-weight: bolder;
}
```

```
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```

TS (prac15.component.ts):

```
import { Component, OnInit } from '@angular/core';
import { Observable } from 'rxjs';
@Component({
selector: 'app-prac15',
templateUrl: './prac15.component.html',
styleUrls: ['./prac15.component.css']
})
export class Prac15Component implements OnInit{
nmbrs = new Observable<number>((observer) ⇒ {
   console.log('Number streaming is started from 0 to 50!');
  let y: number = 0;
   setTimeout(() \Rightarrow {}
     while (y < 50)
     {
       observer.next(y);
       y++;
     }
     observer.complete();
   });
```

```
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```

```
});
 ngOnInit()
{
   this.nmbrs.subscribe({
     next: (n) \Rightarrow \{
       if(n \% 2 == 0)
       {
          console.log(n);
       }
     },
     error: (err) \Rightarrow \{
       console.log(`Error : ${err}`);
     },
     complete: () \Rightarrow {
       console.log('Number streaming completed and even numbers are
logged!');
     }
   })
}
```

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Output:

