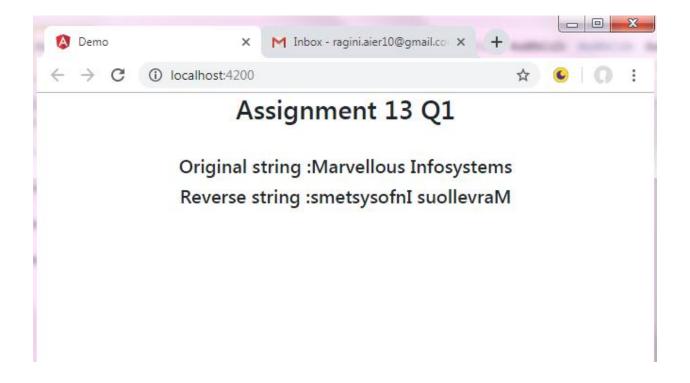
Web Development : Angular Assignment – 13

1.Create angular application which creates one custom pipe named as MyRev. This custom pipe accept string as a value and display the string reverse format.

```
Example:
Name = 'Marvellous'; {{Name | MyRev}}
Output of the above statement should be suollevraM
To solve this question please follow all the steps to create Custom pipe.
Inside transform method of pipe write logic to reverse the string.
Consider below code snippet:
import { Pipe, PipeTransform } from '@angular/core';
@Pipe({name: 'myRev'})
export class MyRev implements PipeTransform
transform(value: string): string
// Create new string to hold the reverse string
let temp: string = "";
// Traverse the string from end and copy the contents in temp.
return temp;
}
}
 src ▷ app ▷ TS my-rev.pipe.ts ▷ 🏞 MyRevPipe ▷ 🛱 transform
        import { Pipe, PipeTransform } from '@angular/core';
    2
    3
        @Pipe({ name: 'myRev' })
    4
    5
        export class MyRevPipe implements PipeTransform {
    6
    7
          transform(value: any): string
    8
            let temp:string="";
    9
   10
            for(let i=value.length-1;i>=0;i--)
   11
   12
            temp =temp +value[i];
   13
   15
           return temp;
   16
   17
   18
```

19



2. Create angular application which creates two custom pipe named as MyAdd & MyMult. MyAdd pipe is used to add two numbers and MyMult is used to multiply two numbers.

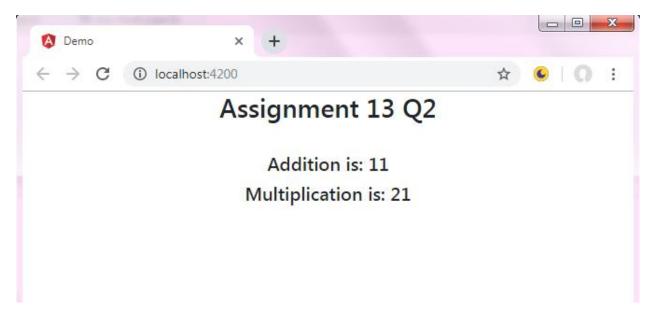
```
Example:
```

```
\{\{8 \mid MyAdd : 3\}\}\ Output should be 11 \{\{7 \mid MyMult : 3\}\} Output should be 21
```

```
For this purpose we have to create two separate pipes and inside transform method of each pipe we have to write logic of addition and multiplication respectively. Consider below code snippet for reference import { Pipe, PipeTransform } from '@angular/core'; @Pipe ({ name: 'MyAdd' }) export class MyAdd implements PipeTransform { transform(value: number, Param: string): number { // return addition of value and Param } } Similarly we can write logic for MyMult pipe also.
```

```
src > app > TS my-add.pipe.ts > * MyAddPipe
      import { Pipe, PipeTransform } from '@angular/core';
  2
  3
      @Pipe({
       name: 'myAdd'
  4
  5
      })
      export class MyAddPipe implements PipeTransform {
  6
  7
  8
         transform(value1: number, value2:number): number
  9
          return (value1+value2);
 10
 11
 12
 13
```

```
src ▷ app ▷ TS my-mult.pipe.ts ▷ ...
      import { Pipe, PipeTransform } from '@angular/core';
  1
  2
  3
      @Pipe({
  4
       name: 'myMult'
  5
  6
       export class MyMultPipe implements PipeTransform {
  7
         transform(value1: number, value2: number):number
  9
         return (value1 * value2);
 10
 11
 12
 13
```



3. Create angular application which creates one custom pipe named as MarvellousChk. This custom pipe accept one integer as a value and parameter can be Prime,Perfect,Even,Odd. Depends on the parameter we have to check status of the number and return the result accordingly.

```
Example : No = 11;
{{No | Even}}
Output of the above statement should be "It is not Even"
{{No | Prime}}
Output of the above statement should be "It is Prime number"
{{No | Prime}}
Output of the above statement should be "It is not Perfect number"
To solve this question please follow all the steps to create Custom pipe.
Inside transform method depends on the parameter we have to write separate logic to check whether number is even or odd or prime or perfect.
Consider below code snippet :
import { Pipe, PipeTransform } from '@angular/core';
@Pipe({name: 'MarvellousChk'})
```

```
export class MarvellousChk implements PipeTransform
{
transform(value: Number, Param: string): string
{
  if(Param == "Prime")
  {
    // Logic to check whether value is prime or not.
  }
  if(Param == "Perfect")
  {
    // Logic to check whether value is Perfect or not.
  }
  if(Param == "Even")
  {
    // Logic to check whether value is Even or not.
  }
  if(Param == "Odd")
  {
    // Logic to check whether value is Odd or not.
  }
  }
  }
  Return the string which displays the result.
```

```
src > app > Ts app.component.ts > AppComponent > No

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

2

3   @Component({
        selector: 'app-root',
        templateUrl: './app.component.html',
        styleUrls: ['./app.component.css']

7   })

8   export class AppComponent {
        title = 'Q3';
        No = 11;
        No = 11;
    }
```

```
src ▷ app ▷ TS marvellous-chk.pipe.ts ▷ 🏞 MarvellousChkPipe ▷ 😭 transform
       import { Pipe, PipeTransform } from '@angular/core';
  2
       @Pipe({ name: 'marvellousChk' })
  3
       export class MarvellousChkPipe implements PipeTransform
  5
        transform(value:number,param: string): string
  6
  7
          if(param == 'Prime')
  8
  9
 10
             let sum=0;
             for(let i=1 ;i <= value/2 ;i++)</pre>
 11
 12
               if(value % i ==0)
 13
 14
               {
 15
                sum=sum+i;
 16
 17
 18
             if(sum == 1)
               return value+" is Prime number";
 19
 20
             else
              return value+" is not Prime number";
 21
 22
           if(param == 'Perfect')
 23
 24
 25
             let sum=0;
             for(let i=1 ;i <= value/2 ;i++)</pre>
 26
 27
               if(value % i ==0)
 28
 29
 30
                 sum=sum+i;
 31
 32
             if(sum == value)
 33
              return value+" is Perfect number";
 34
 35
              return value+" is not Perfect number";
 36
 37
```

```
if(param == 'Even')
38
39
40
           if(value % 2 == 0)
41
             return value+" is Even number";
42
43
44
           else
45
           {
           return value+" is not Even number";
46
47
48
49
         if(param == 'Odd')
50
           if(value % 2 != 0)
51
52
             return value+" is Odd number";
53
54
55
           else
56
             return value+" is not Odd number";
57
58
59
60
61
62
```

```
src ▷ app ▷ ⇔ app.component.html ▷ ⇔ div ▷ ⇔ h5
      <!--The content below is only a placeholder and can be replaced.-->
       <div style="text-align:center">
        <h3>
  3
  4
          Assignment 13 {{ title }}
  5
         </h3><br>
  6
         <h5>{{ 12 | marvellousChk: 'Even' }}</h5>
  7
         <h5>{{ No | marvellousChk: 'Even' }}</h5>
         <h5>{{ No | marvellousChk:'Odd' }}</h5>
  8
         <h5>{{ No | marvellousChk: 'Prime' }}</h5>
  9
         <h5>{{ No | marvellousChk: 'Perfect' }}</h5>
 10
 11
        <h5>{{ 28 | marvellousChk: 'Perfect' }}</h5>
       </div>
 12
 13
 14
```

