```
////////////////////////////////////////////////////////////////////////

//Assignment- 9 | RID-073AM_Viraj

////////////////////////////////////////////////////////////////////////

// Que-1
```
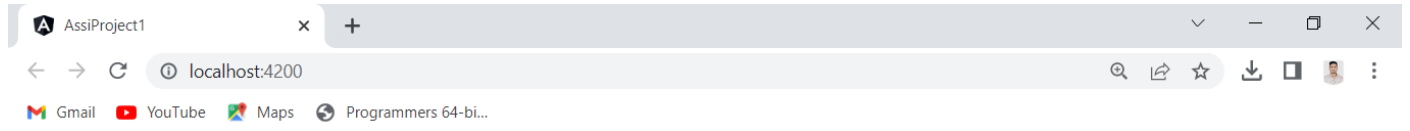
Inside Demo Component

Addition is : 30

Substraction is : 10

```
//Service
```

TS demo.component.ts U   <> demo.component.html U   TS *arithmatic.service.ts* U ×

```typescript
 1   import { Injectable } from '@angular/core';
 2
 3   @Injectable({
 4     providedIn: 'root'
 5   })
 6   export class ArithmaticService {
 7
 8     constructor() { }
 9
10     public Add(iNo1 : number,iNo2 : number)
11     {
12       return iNo1+iNo2;
13     }
14     public Sub(iNo1 : number,iNo2 : number)
15     {
16       return iNo1-iNo2;
17     }
18   }
19
```

//demo.ts

```typescript
 8  })
 9  export class DemoComponent {
10    private iVal1 : number;
11    private iVal2 : number;
12    public iRet1 : number;
13    public iRet2 : number;
14
15    constructor(public mObj : ArithmaticService)
16    {
17      this.iVal1 = 20;
18      this.iVal2 = 10;
19      this.iRet1 = 0;
20      this.iRet2 = 0;
21    }
22    ngOnInit()
23    {
24      this.iRet1 = this.mObj.Add(this.iVal1,this.iVal2)
25      this.iRet2 = this.mObj.Sub(this.iVal1,this.iVal2)
26    }
27  }
```
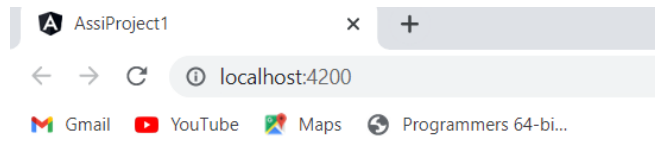
//demo.html

```html
1  <H1>Inside Demo Component</H1>
2
3  <h1>Addition is : {{iRet1}}</h1>
4  <h1>Substraction is : {{iRet2}}</h1>
```

///

//Que-2 OutPut-

inside child1

3 is Prime Number

Inside Child2

String is : iNDiA

Capital Count = 3

//Service 1

<> child2.component.html U   TS number.service.ts U ×

```
 6   export class NumberService {
 7
 8     constructor() { }
 9
10     public ChkPrime(iNo : number) : any
11     {
12       let iCnt : number = 0;
13       for(iCnt = 2; iCnt <= iNo; iCnt++)
14       {
15         if(iNo % iCnt == 0)
16         {
17           return "is Not Prime Number";
18         }
19         else
20         {
21           return "is Prime Number";
22         }
23       }
24     }
```

//Service 2

```typescript
3    @Injectable({
4      providedIn: 'root'
5    })
6    export class StringService {
7
8      constructor() { }
9
10     public CountCapital(str : String)
11     {
12       let iCnt : number = 0;
13       let Count : number = 0;
14
15       for(iCnt = 0; iCnt < str.length; iCnt++)
16       {
17         if(str[iCnt] >= 'A' && str[iCnt] <= 'Z')
18         {
19           Count++;
20         }
21       }
```

//Child 1.ts

```typescript
1    import { Component,OnInit } from '@angular/core';
2    import { NumberService } from '../number.service';
3    @Component({
4      selector: 'app-child1',
5      templateUrl: './child1.component.html',
6      styleUrls: ['./child1.component.css']
7    })
8    export class Child1Component {
9      public sRet = "";
10     public iVal : number = 3;
11     constructor(public nObj : NumberService)
12     {}
13     ngOnInit()
14     {
15       this.sRet = this.nObj.ChkPrime(this.iVal);
16     }
17   }
```

//Child 2.ts

```
child2.component.html U          TS child2.component.ts U ✕

1   import { Component,OnInit } from '@angular/core';
2   import { StringService } from '../string.service';
3
4   @Component({
5     selector: 'app-child2',
6     templateUrl: './child2.component.html',
7     styleUrls: ['./child2.component.css']
8   })
9   export class Child2Component {
10      constructor(public sObj : StringService)
11      {}
12      public iRet : number = 0;
13      public str = "iNDiA" ;
14      ngOnInit()
15      {
16       this.iRet = this.sObj.CountCapital(this.str);
17      }
18  }
```
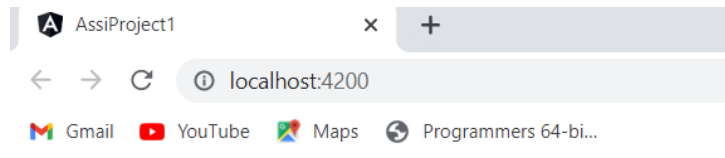
//Child 2.html

```
child2.component.html U ✕

1   <h1>Inside Child2</h1>
2   <h1>String is : {{str}}</h1>
3   <h1>Capital Count = {{iRet}}</h1>
```

//Child 1.html

```
child2.component.html U        child1.component.html U ✕    TS ch

1   <h1>inside child1</h1>
2
3   <h1>{{iVal}} {{sRet}}</h1>
```

//Que-3 OutPut-

Service 1

3 is Prime Number

Service 2

String is : iNDiA

Capital Count = 3

//Child.ts

```
TS child.component.ts U  ×    <> child.component.html U                    ▷  ⅔

    6    selector: 'app-child',
    7    templateUrl: './child.component.html',
    8    styleUrls: ['./child.component.css']
    9  })
   10  export class ChildComponent {
   11    public iRet : number = 0;
   12    public iVal : number = 3;
   13    public sRet = "";
   14    public str = "iNDiA" ;
   15
   16    constructor(public nObj : NumberService,public sObj : StringSer
   17    {}
   18    ngOnInit()
   19    {
   20     this.iRet = this.sObj.CountCapital(this.str);
   21     this.sRet = this.nObj.ChkPrime(this.iVal);
   22    }
   23  }
```

//