

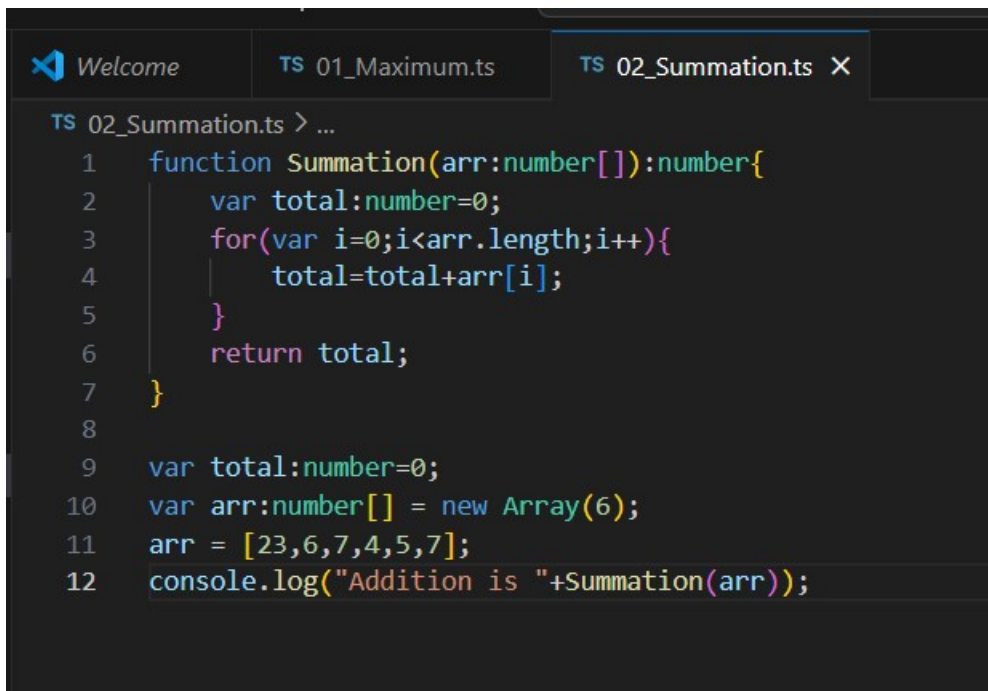
Assignment 1 -

```
TS 01_Maximum.ts > ...
1  function Maximum(arr:number[]):number{
2      var max:number=arr[0];
3      for(var i=1;i<arr.length;i++){
4          if(max<arr[i]){
5              max=arr[i];
6          }
7      }
8      return max;
9  }
10
11  var arr:number[]=[23,89,6,29,56,45,77,32];
12  var max:number=0;
13  max = Maximum(arr);
14  console.log("Maximum number is "+max);
```

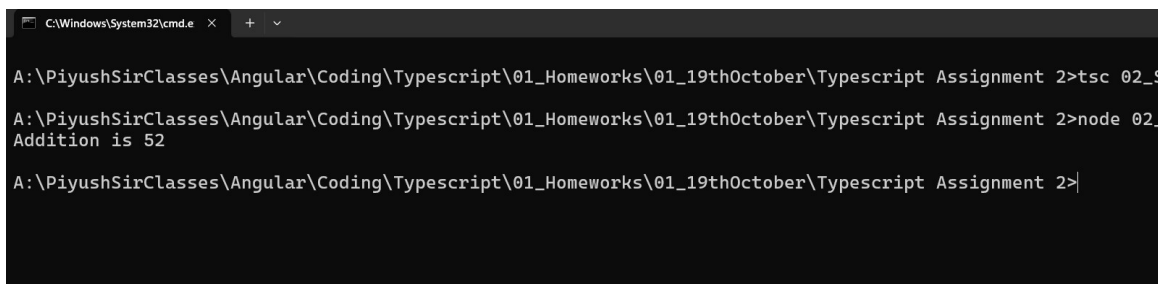
```
Microsoft Windows [Version 10.0.22631.4169]
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A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2:
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2:
Maximum number is 89
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2:
```

Assignment 2-



```
TS 02_Summentation.ts > ...
1  function Summation(arr:number[]):number{
2      var total:number=0;
3      for(var i=0;i<arr.length;i++){
4          total=total+arr[i];
5      }
6      return total;
7  }
8
9  var total:number=0;
10 var arr:number[] = new Array(6);
11 arr = [23,6,7,4,5,7];
12 console.log("Addition is "+Summation(arr));
```



```
C:\Windows\System32\cmd.e  X  +  v
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>tsc 02_S
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>node 02_
Addition is 52
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>|
```

Assignment 3-

```
Welcome TS 01_Maximum.ts 1 TS 02_Summaion.ts TS 03_SecondMaximumNumber.ts X
TS 03_SecondMaximumNumber.ts > Maximum
1 function Maximum(arr:number[]):number{
2     var firstMax:number=arr[0];
3     var secondMax:number=0;
4
5     for(var i=1;i<arr.length;i++){
6         if(firstMax<arr[i]){
7             secondMax=firstMax;
8             firstMax=arr[i];
9         }
10        if(secondMax<arr[i] && firstMax>arr[i]){
11            secondMax=arr[i];
12        }
13    }
14
15    return secondMax;
16 }
17
18 var arr:number[]=[23,6,29,56,45,77,89,32];
19 console.log("Second Maximum Number is "+Maximum(arr));
```

```
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>tsc 03_SecondMaximumNumber.ts
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>node 03_SecondMaximumNumber.js
Second Maximum Number is 77
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>
```

Assignment 4 -

```
Welcome TS 02_Sumamation.ts TS 04_ChkArmStrong.ts X
TS 04_ChkArmStrong.ts > [C] ChkArmStrong
1  var ChkArmStrong = (num: number): boolean => {
2      var total: number = 0;
3      var countOfDigits: number = 0;
4      var temp: number = num;
5      var singleDigit: number = 0;
6      while (temp > 0) {
7          countOfDigits++;
8          temp = Math.floor(temp / 10);
9      }
10
11     temp = num;
12     while (temp > 0) {
13         singleDigit = temp % 10;
14         temp = Math.floor(temp / 10);
15         total = total + Math.pow(singleDigit, countOfDigits);
16     }
17     if(total==num){
18         return true;
19     }else{
20         return false;
21     }
22 }
23
24 var num: number = 8208;
25 if(ChkArmStrong(num)){
26     console.log("It is Armstrong number")
27 }else{
28     console.log("It is NOT Armstrong number")
29 }
```

```
C:\Windows\System32\cmd.e x + v
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>tsc 04_ChkArmStrong.ts
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>node 04_ChkArmStrong.js
It is Armstrong number
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>
```

Assignment 5 -

```
TS 02_Summatation.ts X TS 04_ChkArmStrong.ts TS 05_CheckString.ts X
TS 05_CheckString.ts > TEMP
1  var TEMP = function(str:string):boolean{
2      if(str.includes("Marvellous")){
3          return true;
4      }
5      return false;
6  }
7
8  var str:string = "Pune Kothrud Marvellous Infosystem";
9  if(TEMP(str)){
10     console.log("String contains Marvellous in it");
11 }else{
12     console.log("String DOES NOT contains Marvellous in it");
13 }
```

```
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>tsc 05_CheckString.ts --t es6
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>node 05_CheckString.js
String contains Marvellous in it
A:\PiyushSirClasses\Angular\Coding\Typescript\01_Homeworks\01_19thOctober\Typescript Assignment 2>|
```