

1. Write a typescript program which contains one function named as Maximum. That function accepts array of numbers and returns the largest number from array.

Input: 23 89 6 29 56 45 77 32

Output: Maximum number is 89

```
C: > Users > admin > Desktop > typescript > TS MaximumArray.ts > Maximum
1  function Maximum(Arr : number[]) : void
2  {
3      var max = Arr[0]
4      for( var Cnt = 0; Cnt < Arr.length; Cnt++)
5      {
6          if(Arr[Cnt] > max)
7              max = Arr[Cnt]
8      }
9      console.log("Maximum number is "+max)
10
11 }
12
13 var List : number[] = [23,89,6,29,56,45,77,32]
14 Maximum(List)
```

```
C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19044.2604]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd desktop/typescript

C:\Users\admin\Desktop\typescript>tsc MaximumArray.ts

C:\Users\admin\Desktop\typescript>node MaximumArray.js
Maximum number is 89

C:\Users\admin\Desktop\typescript>
```

2. Write a typescript program which contains one function named as Summation. That function accepts array of numbers and returns the summation of each number from array

Input: 23 6 7 4 5 7

Output: Addition is 52

```

C: > Users > admin > Desktop > typescript > TS Summation.ts > Summation
1  function Summation(Arr : number[]) : number
2  {
3      let Sum : number = 0
4      let Cnt : number = 0
5
6      for(Cnt =0; Cnt < Arr.length; Cnt++)
7      {
8          Sum = Sum + Arr[Cnt];
9      }
10     return Sum
11 }
12
13 var List : number[] = [23,6,7,4,5,7]
14
15 var Ans : number = 0
16
17 Ans = Summation(List)
18
19 console.log("Addition is : "+Ans)

```

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19044.2604]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd desktop/typescript

C:\Users\admin\Desktop\typescript>tsc Summation.ts

C:\Users\admin\Desktop\typescript>node Summation.js
Addition is : 52

C:\Users\admin\Desktop\typescript>

```

3. Write a typescript program which contains one function named Maximum. That function accepts array of numbers and returns the second largest number from array.

Input: 23 89 6 29 56 45 77 32

Output: Second largest number is 77

```

C: > Users > admin > Desktop > typescript > TS Maximum.ts > ...
1  function Maximum(Arr : number[]) : void
2  {
3      var Max1 : number = 0
4      var Max2 : number = 0
5      for(var Cnt =0;Cnt<Arr.length;Cnt++)
6      {
7          if(Arr[Cnt] > Max1)
8          {
9              Max2 = Max1
10             Max1 = Arr[Cnt]
11         }
12         else
13         {
14             if(Arr[Cnt] > Max2 && Arr[Cnt]< Max1)
15             {
16                 Max2 = Arr[Cnt]
17             }
18         }
19     }
20 }
21 console.log("Second Maximum number is "+Max2 )
22 }
23
24 var List : number[]=[23,89,6,29,56,45,77,32]
25 Maximum(List)

```

```

C:\WINDOWS\system32\cmd.exe
Microsoft Windows [Version 10.0.19044.2604]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd desktop/typescript

C:\Users\admin\Desktop\typescript>tsc maximum.ts

C:\Users\admin\Desktop\typescript>node Maximum.js
Second Maximum number is 77

C:\Users\admin\Desktop\typescript>

```

4. Write a typescript program which contains one arrow function names ChkArmstrong. That function accepts one numbers and check whether number is Armstrong number or not.

Input: 153

Output : It is Armstrong number

! Can't getting what's the problem, not getting answer

5. Write a typescript program which contains one function named Chkstring. That function accept one string and check whether that string contains “Marvellous” word or not.

Input: “Pune Kothrud Marvellous Infosystems”

Output: String contains Marvellous in it

```
C: > Users > admin > Desktop > typescript > TS armstrong.ts > ...
1  function ChkArmstrong(No1 : number): void
2  {
3      var sum : number = 0
4      var digit : number = 3
5      while(No1 > 0)
6      {
7          var r : number
8          r = Math.floor(No1 % 10);
9          sum = sum + (r * r * r);
10         No1 = Math.floor(No1 / 10);
11     }
12     if(sum == No1)
13     {
14         console.log("It is Armstrong number")
15     }
16     else
17     {
18         console.log("It is not Armstrong no")
19     }
20 }
21 var No1 : number = 153
22 ChkArmstrong(No1)
```

C:\WINDOWS\system32\cmd.exe

```
Microsoft Windows [Version 10.0.19044.2604]
(c) Microsoft Corporation. All rights reserved.

C:\Users\admin>cd desktop/typescript

C:\Users\admin\Desktop\typescript>tsc string.ts

C:\Users\admin\Desktop\typescript>node string.js
string contains Marvellous in it

C:\Users\admin\Desktop\typescript>
```