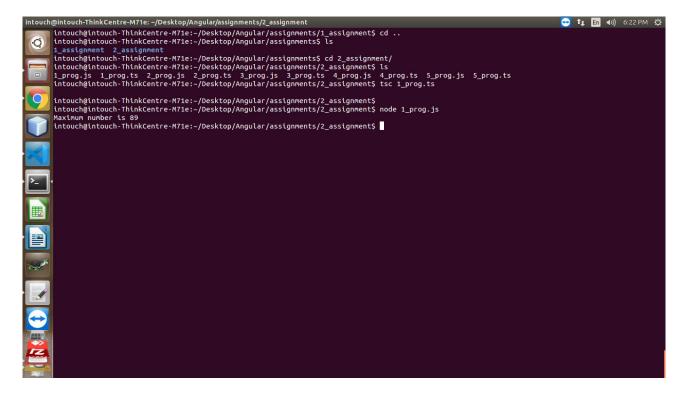
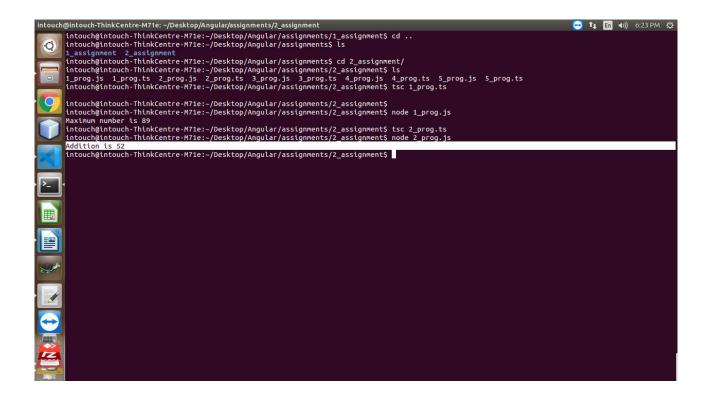
```
/*1. Write a typescript program which contains one function named as Maximum. That function
accepts
array of numbers and returns the largest number from array.
Input:
23
89
6
29
56
45
77
32
Output:
Maximum number is 89
*/
function Maximum(arr:number[]):number{
  var max:number = arr[0];
  for(var i=1; i<arr.length; i++){</pre>
    if(max < arr[i]){</pre>
       max = arr[i];
    }
  }
  return max;
//var arr1:number[] = new Array(3);
//arr1= [23,89,20];
var arr1:number[] = [23,89,6,29,56,45,77,32];
console.log("Maximum number is "+Maximum(arr1));
```

Output:-



/*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
function Summation(arr:number[]):number{
  var sum:number = 0;
  for(var i=0; i<arr.length; i++){</pre>
     sum = sum + arr[i];
  return sum;
}
//var arr1:number[] = new Array(3);
//arr1= [23,89,20];
var arr1:number[] = [23,6,7,4,5,7];
console.log("Addition is "+Summation(arr1));
Output:-
```



/*3. Write a typescript program which contains one function named as Maximum. That function array of numbers and returns the second largest number from array. Input: 23 89 6 29 56 45 77 32 Output: Second Maximum number is 77 */ function Maximum(arr:number[]):number{ var max:number = arr[0]; var secondmax:number = arr[0]; for(var i=0; i<arr.length; i++){</pre> if (arr[i] > max) { secondmax = max;max = arr[i];} else if (arr[i] > secondmax) { secondmax = arr[i];

return secondmax;

}

var arr1:number[] = [23,89,6,29,56,45,77,32];
console.log("Second Maximum number is "+Maximum(arr1));

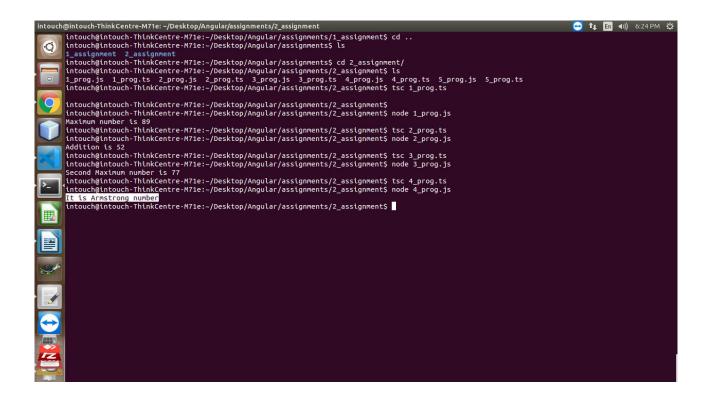
Output:-

Output:-

```
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```

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

```
Input:
153
Output:
It is Armstrong number
*/
function ChkArmstrong(num:number){
  var arm:number=0,a:number,temp:number;
  temp=num;
  while(temp>0){
    a=temp\%10;
    // temp=parseInt(temp/10); // convert float into Integer
    temp=Math.floor(temp/10);
    arm=arm+a*a*a;
  }
  if(arm==num){
    console.log("It is Armstrong number");
  }
  else{
    console.log("It is Not Armstrong number");
  }
ChkArmstrong(153);
```



/*5. Write a typescript program which contains one function named as ChkString. That function one string and check whether that string contains "Marvellous" word or not. Input: "Pune Kothrud Marvellous Infosystems" Output: String contains Marvellous in it. */ function ChkString(str:string){ var str2 = "Marvellous"; var strlen = str.length; var str2len = str2.length; // console.log(str2len); for(var i=0; i<=strlen-str2len ;i++){</pre> var j; for(j=0; j < str2len; j++)if (str[i + j] != str2[j])break; if (j == str2len) { // return j; console.log("String contains Marvellous in it."); }

}

var str1 = "Pune Kothrud Marvellous Infosystems"; ChkString(str1);

Output:-

