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

var arr=[10,20,30,40];

console.log("Max No.: "+getMaxNoInArray(arr));

function getMaxNoInArray(r:number[]):Number

{

var max:number=0;

for( var no:number=0;no<r.length;no++)

{

if(max<r[no])

max=r[no];

}

return max;

}

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

var arr=[10,20,30,40];

console.log("Sum of array: "+getSumArray(arr));

function getSumArray(r:number[]):Number

{

var sum:number=0;

for( var no:number=0;no<r.length;no++)

{

sum+=r[no];

}

return sum;

}

3. Write a typescript program which contains one function named as 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 Maximum number is 77

var arr=[10,20,30,40];

console.log("Max No.: "+getMaxNoInArray(arr));

function getMaxNoInArray(r:number[]):Number

{

var max:number=0;

var secondMax=0;

for( var no:number=0;no<r.length;no++)

{

if(max<r[no])

{

secondMax=max;

max=r[no];

}

}

return secondMax;

}

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

var no=153;

isNoArmstrong(no);

function isNoArmstrong(num:number):void

{

var c:number=0;

var a:number,temp:number;

var n:number=num;

temp=n;

// console.log("n="+(n%10)+" "+(n/10));

while(n>0)

{

a=n%10;

// console.log("a="+a);

var tmp:string=""+n/10;

n=parseInt(tmp);

// console.log("n="+n);

c=c+(a\*a\*a);

// console.log("c="+c);

}

if(temp==c)

console.log("armstrong number");

else

console.log("Not armstrong number"+temp+" "+c);

}

5. Write a typescript program which contains one function named as 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.

var str1:string="Pune Kothrud Marvellous Infosystems";

var str2:string="Marvellous";

checkStringContainSubstring(str1,str2);

function checkStringContainSubstring(s1:string,s2:string):void

{

if(s1.indexOf(s2) >=0)

{

console.log("String contains "+s2+ "in it.");

}

else

{

console.log("String NOT contains "+s2+ "in it.")

}

}