1. Write a typescript program which contains one function named as Maximum. That function accepts

three parameters and it should returns largest value from three input parameters.

Input : 23 89 6

Output : Maximum number is 89

var maxNumber=findMaximum(10,20,15);

console.log("Maximum number is "+maxNumber);

function findMaximum(num1:number,num2:number,num3:number):number

{

var max = 0;

if((num1 >= num2) && (num1 >= num3)){

max = num1;

}

else if((num2 >= num1) && (num2 >= num3)){

max = num2;

}

else{

max = num3;

}

return max;

}

2. Write a typescript program which contains one function named as Area. That function should

calculate area of circle. Accept value of radius from user and return its area. Default value of PI

should be 3.14 if it is not provided by the caller.

Input : 5

Output : Area of circle is 78.5

var r:number=10;

var pi:number=3.14

console.log("Area of circle is "+getCircleArea(r));

console.log("Area of circle is with PI: "+getCircleArea(r,pi));

function getCircleArea(r:number,PI:number=3.14):Number

{

return PI\*r\*r;

}

3. Write a typescript program which contains one function named as DisplayFactors. That function

should accept one number and display factors of that number.

Input : 20

Output : 1 2 4 5 10

var num:number=20;

displayFactor(num);

function displayFactor(num:number):void

{

for(var i:number=0;i<=(num/2);i++)

{

if(num%i == 0)

{

console.log(i+" ");

}

}

}

4. Write a typescript program which contains one function named as ChkPrime. That function should

accept one number and it should return true if the given number is prime and otherwise return false.

Input : 11

Output : It is prime number

var num:number=11;

if(checkPrime(num)==true)

{

console.log(num+" is prime...");

}

else

{

console.log(num+" is not prime...");

}

function checkPrime(num:number):boolean

{

for(var i:number=2;i<=(num/2);i++)

{

if(num%i == 0)

{

return false;

}

}

return true;

}

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

one number from user and print Fibonacci series till that number.

Input : 21

Output : 1 1 2 3 5 8 13 21

console.log(fibonacci\_series(30)+" ");

//fibonacci\_series(num);

function fibonacci\_series(num:number):number

{

if (num <= 1)

return 1;

return fibonacci\_series(num - 1) + fibonacci\_series(num - 2);

}