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

```
function Maximum(no1:number,no2:number,no3:number):number
{
    var Max:number;

    if((no1>no2)&&(no1>no3))
    {
        Max=no1;
    }
    else if((no2>no1)&&(no2>no3))
    {
        Max=no2;
    }
    else if((no3>no1)&&(no3>no2))
    {
        Max=no3;
    }
    return Max;
}

var iRet=Maximum(23,89,6);

console.log("Maximum number is "+iRet);
```

```
D:\Angular\Assignmentl>tsc 1_Ass1.ts
D:\Angular\Assignmentl>node 1_Ass1.js
Maximum number is 89
D:\Angular\Assignmentl>
```

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

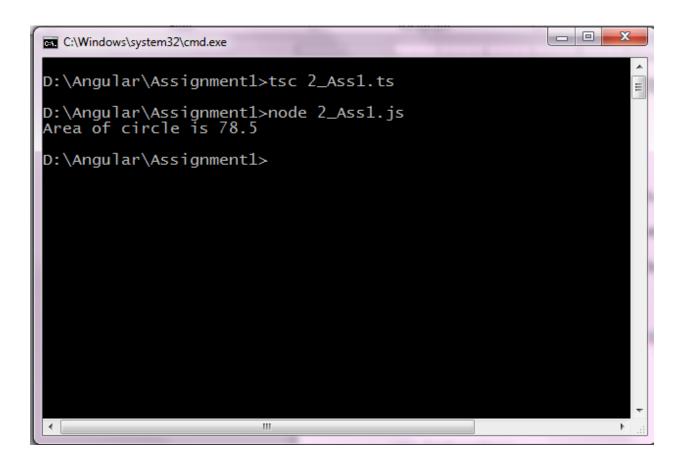
should be 3.14 if it is not provided by the caller.

```
Input: 5
Output: Area of circle is 78.5

function Area(radius:number,PI:number=3.14):number
{
    var area= PI *radius*radius;
    return area;
}

var iret:number;

iret=Area(5);
console.log("Area of circle is "+iret);
```



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

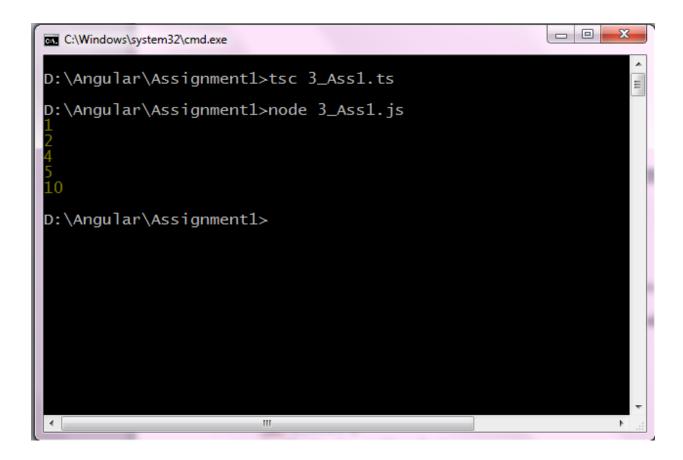
should accept one number and display factors of that number.

Input: 20

Output: 1 2 4 5 10

```
function DisplayFactors(no:number)
    var i:number;
    for(i =1; i<= no/2; i++)</pre>
        if( no % i== 0)
        {
             console.log(i);
        }
    }
}
```

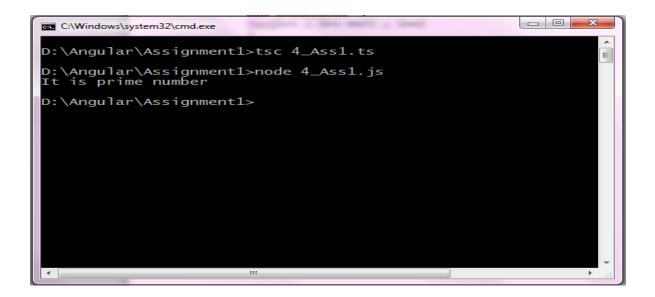
DisplayFactors(20);



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

```
function ChkPrime(no:number):boolean
    var i:number;
    var sum:number=0;
    for(i=1; i<= no/2; i++)</pre>
        if(no % i == 0)
        {
            sum=sum+i;
        }
    if(sum == 1)
        return true;
    else
        return false;
}
var bret:boolean;
bret=ChkPrime(11);
if(bret == true)
    console.log("It is prime number");
else
    console.log("It is not prime number");
```



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
```

```
function Fibonacci(num:number)
{
    var no1=0,no2=1,no3:number=0,i=0;
    console.log(no1);
    console.log(no2);
    while(no3<num)
    {
        no3=no1 + no2;
        no1=no2;
        no2=no3;
        console.log(no3);
    }
}</pre>
```

## Fibonacci(21);

```
D:\Angular\Assignment1>tsc 5_Ass1.ts
D:\Angular\Assignment1>node 5_Ass1.js
0
1
1
2
3
5
8
13
21
D:\Angular\Assignment1>_
```