

### Problem 1

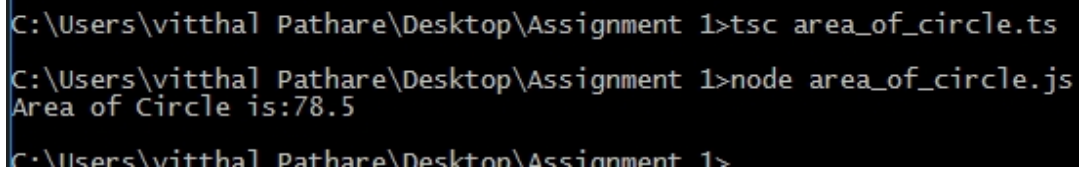
```
function Maxnumber(N1:number, N2:number, N3:number):number
{
    if((N1 > N2) && (N1 > N3))
    {
        return N1;
    }
    else if((N2 > N1) && (N2 > N3))
    {
        return N2;
    }
    else
    {
        return N3;
    }
}
var maximum:number;
maximum = Maxnumber(23, 89, 6);
console.log("Maximum Number:"+maximum);
```

OUTPUT

```
C:\Users\vitthal Pathare\Desktop\Assignment 1>tsc maximum_number.ts
C:\Users\vitthal Pathare\Desktop\Assignment 1>node Maximum_number.js
Maximum Number:89
C:\Users\vitthal Pathare\Desktop\Assignment 1>
```

### Problem 2

```
function Area(r:number)
{
    var area = 3.14 * r * r;
    return area;
}
var areaofcircle:number;
areaofcircle = Area(5);
console.log("Area of Circle is:" + areaofcircle);
```

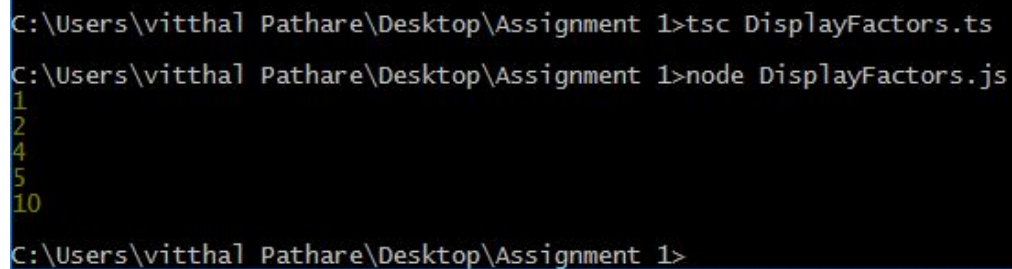


```
C:\Users\vitthal Pathare\Desktop\Assignment 1>tsc area_of_circle.ts
C:\Users\vitthal Pathare\Desktop\Assignment 1>node area_of_circle.js
Area of Circle is:78.5
C:\Users\vitthal Pathare\Desktop\Assignment 1>
```

### Problem 3

```
function DisplayFactors(Num:number)
{
    for(var i = 0; i < Num; i++)
    {
        if((Num % i) == 0)
        {
            console.log(i);
        }
    }
}
DisplayFactors(20);
```

### OUTPUT

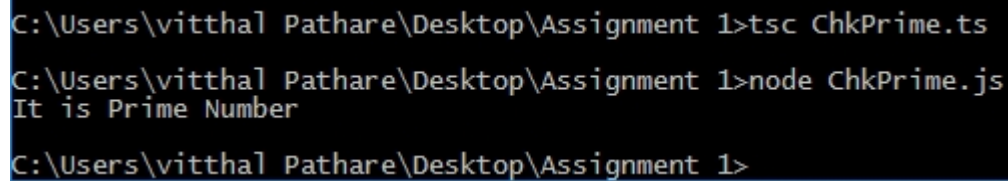


```
C:\Users\vitthal Pathare\Desktop\Assignment 1>tsc DisplayFactors.ts
C:\Users\vitthal Pathare\Desktop\Assignment 1>node DisplayFactors.js
1
2
4
5
10
C:\Users\vitthal Pathare\Desktop\Assignment 1>
```

#### Problem 4

```
function ChkPrime(Num:number)
{
    if((Num % 2) == 0)
    {
        return false;
    }
    else
    {
        return true;
    }
}
var iret:boolean;
iret = ChkPrime(11);
if(iret == true)
{
    console.log("It is Prime Number");
}
else
{
    console.log("Number is not Prime");
}
```

#### OUTPUT



```
C:\Users\vitthal Pathare\Desktop\Assignment 1>tsc ChkPrime.ts
C:\Users\vitthal Pathare\Desktop\Assignment 1>node ChkPrime.js
It is Prime Number
C:\Users\vitthal Pathare\Desktop\Assignment 1>
```

#### Problem 5

```
function Fibonacci(No:number)
{
    var i:number = 1, a:number = 1 , b:number;
    while(i <= No)
    {
        console.log(i);
        b = i + a;
        i = a;
        a = b;
    }
}

Fibonacci(21);
```

## OUTPUT

```
C:\Users\vitthal Pathare\Desktop\Assignment 1>tsc Fibonacci.ts
C:\Users\vitthal Pathare\Desktop\Assignment 1>node Fibonacci.js
1
1
2
3
5
8
13
21
C:\Users\vitthal Pathare\Desktop\Assignment 1>
```