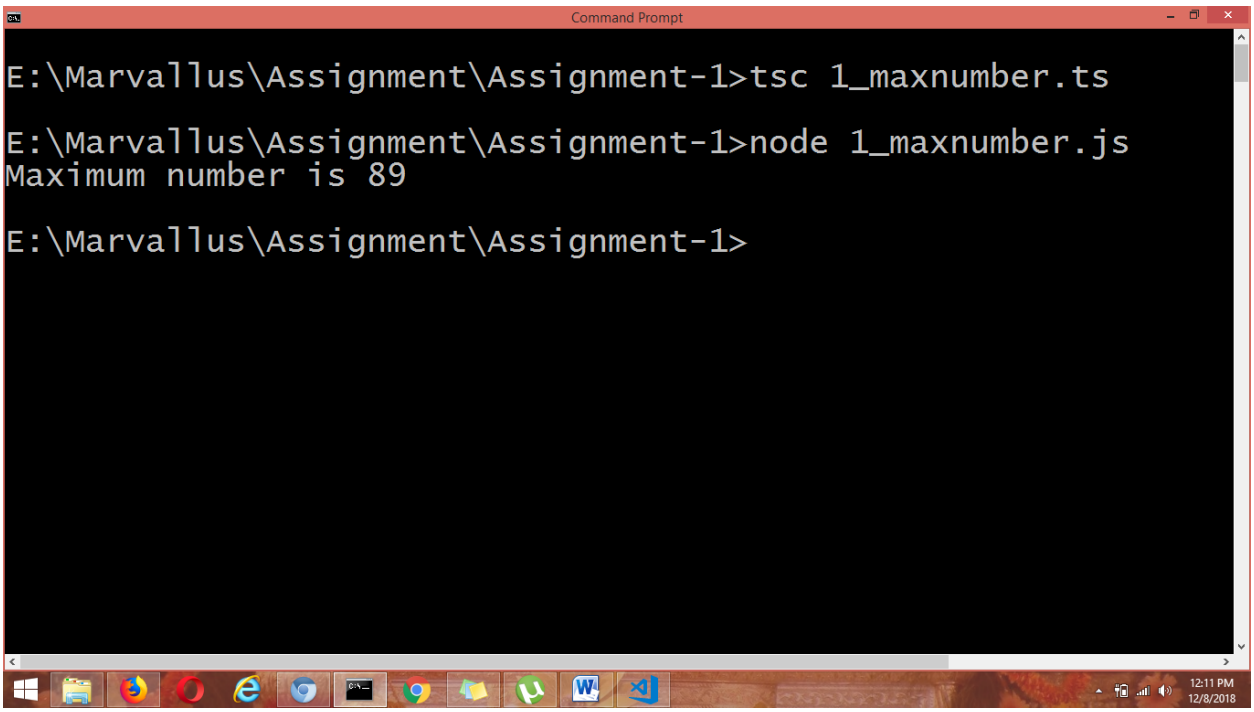
1.

```
function maximum(num1:number, num2:number, num3:number ):number {
    if(num1 > num2 && num1 > num3){
        return num1
    } else if(num2 > num1 && num2 > num3){
        return num2
    }else{
        return num3
    }
}

var max:number = maximum(23, 89, 6)
console.log("Maximum number is " + max)
```

O/P :

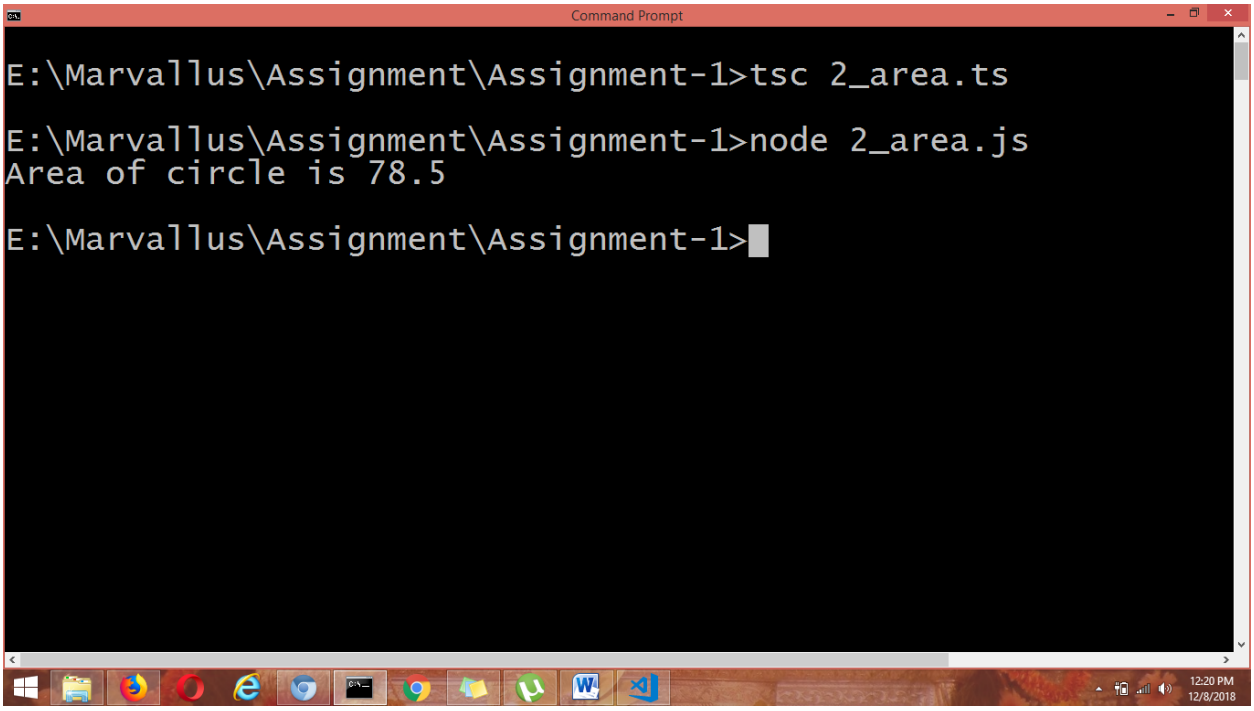


2.

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

var area_circle = area(5);
console.log("Area of circle is "+area_circle);
```

o/p :

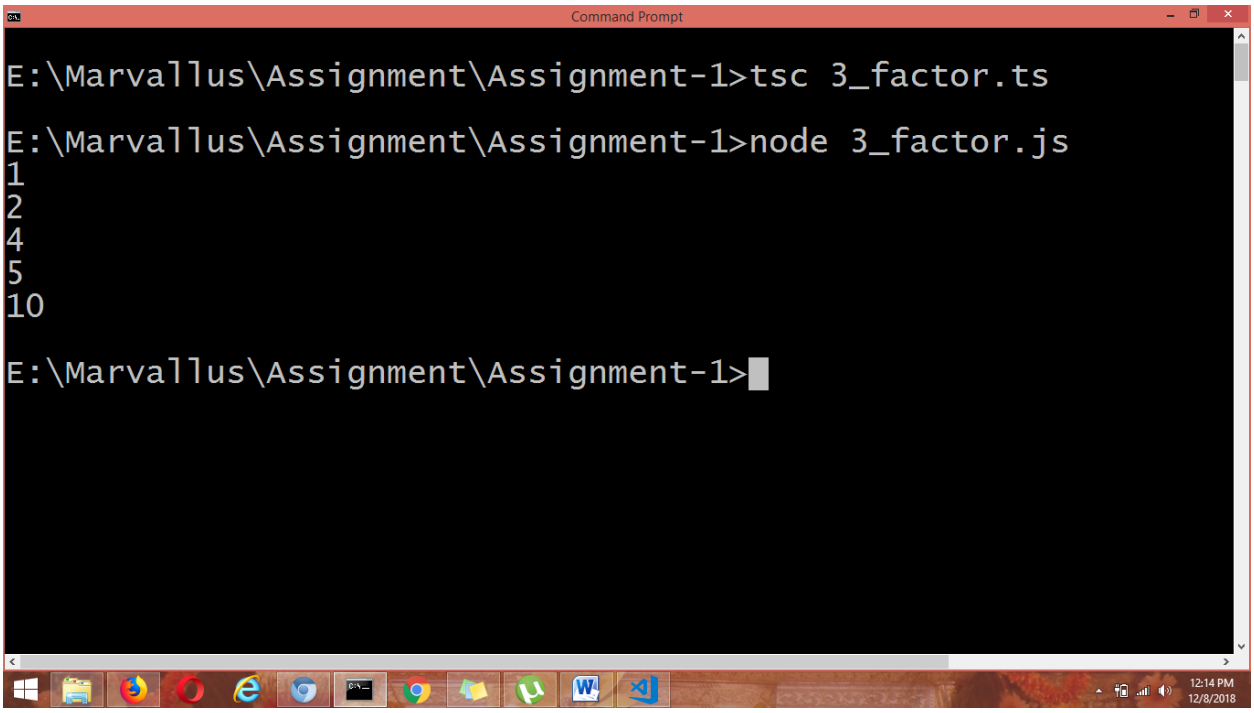


3.

```
function display_factors(num:number){
    var i:number = 1
    var n:number = num / 2
    while(i <= n ){
        if (num%i == 0)
            console.log(i)
        i++
    }
}

display_factors(20)
```

o/p:

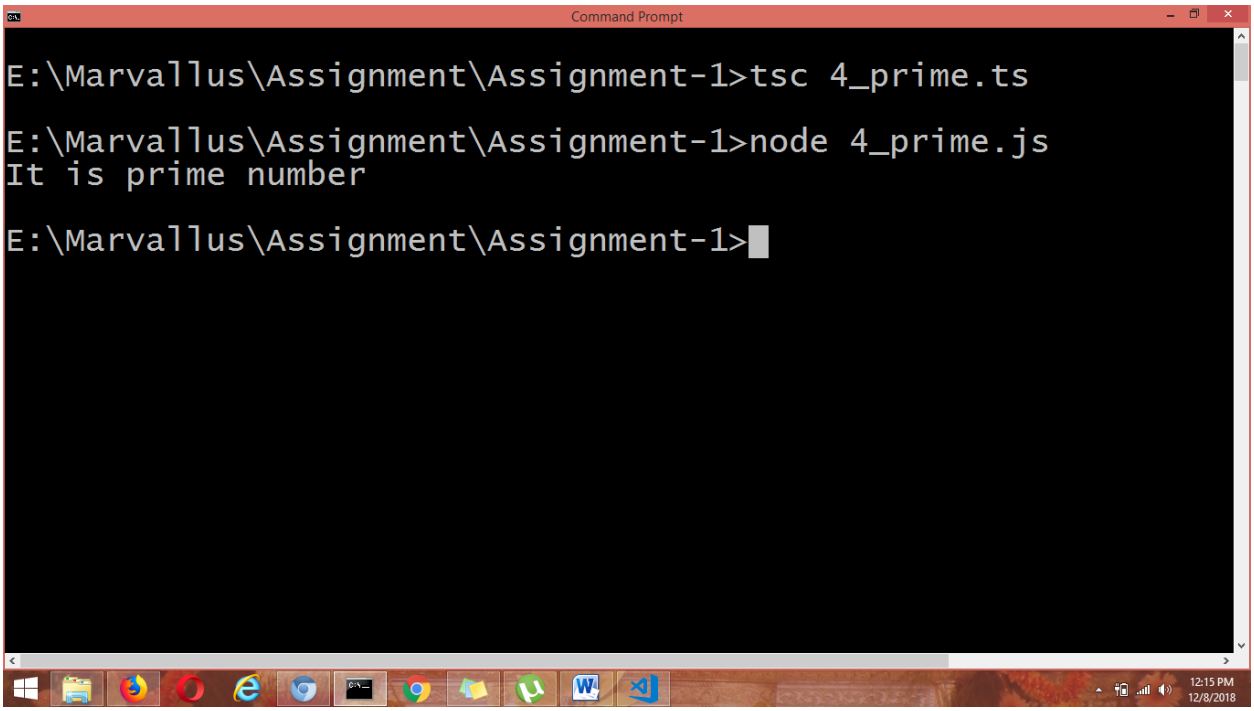


4.

```
function prime(num:number):boolean{
    var i:number = 2
    while(i <= num ){
        if(num%i == 0)
            break
        i++
    }
    if(i == num)
        return true
    else
        return false
}

var n:boolean = prime(11)
if(n)
    console.log("It is prime number")
else
    console.log("It is not prime number")
```

o/p :



5.

```
function display_fibonacci(num:number){
    var a:number = 0
    var b:number = 1
    while(b <= num ){
        console.log(b)
        b = a + b
        a = b - a
    }
}

display_fibonacci(21)
```

o/p: