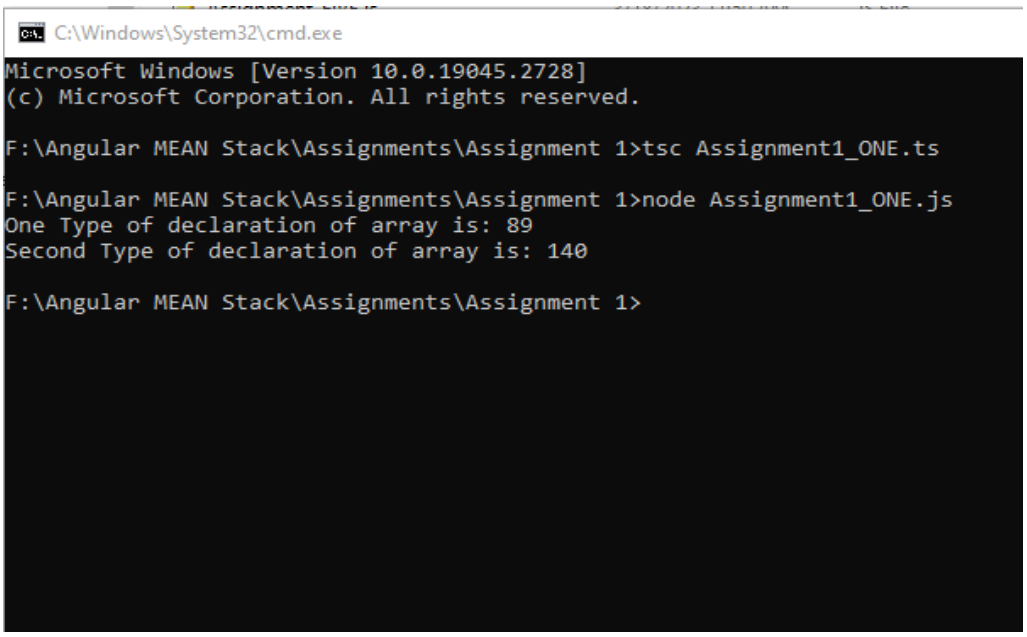
Assignment1_ONE.ts

Program

```
function Maximum(num:number[]):number
{
	var max:number = num[0];
	var iCount:number = 0;
	for(iCount = 1;iCount < num.length;iCount++)
	{
		if(max < num[iCount])
			max = num[iCount];
	}
	return max;
}

var lstNumbers:number[] = [23,89,6];

var largestNumber:number = Maximum(lstNumbers);

console.log("One Type of declaration of array is: "+largestNumber);
var lstNumbersType2:number[] = new Array(10,20,30,140,50,60,90,);
var largestNumber:number = Maximum(lstNumbersType2);
console.log("Second Type of declaration of array is: "+largestNumber);
```

Output:

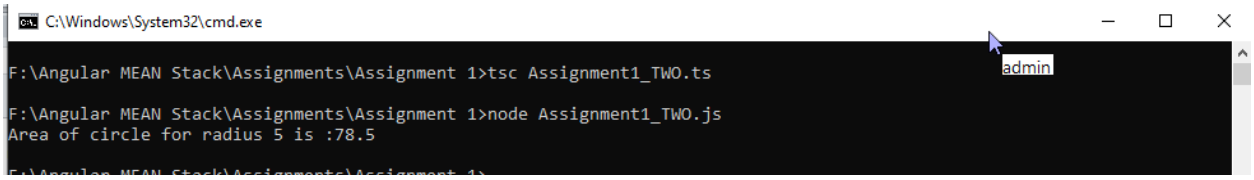


Assignment1_TWO.ts

Program

```
function Area(radius:number):number
{
        var area:number = 0;
        const pi:number = 3.14;
        area = pi*radius*radius;
        return area;
}
var radius = 5;
var area:number = Area(radius);
console.log("Area of circle for radius "+radius+" is :"+area);
```

Output:

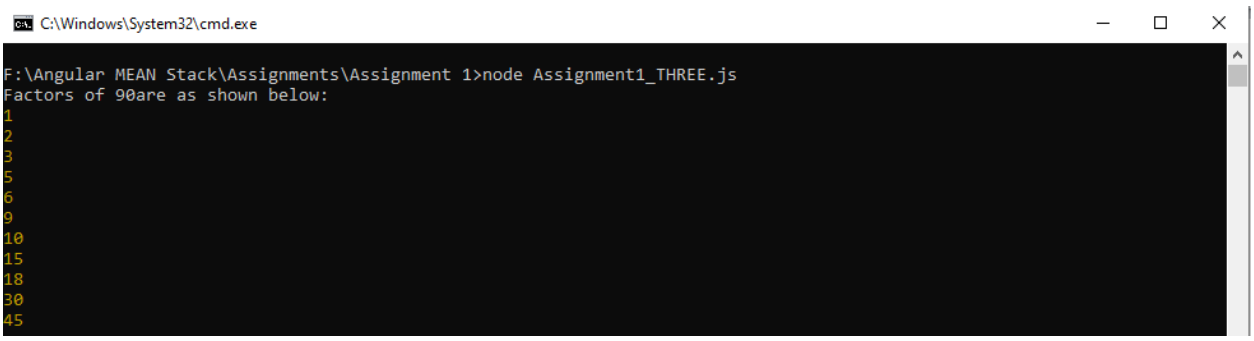


Assignment1_THREE

Program:

```
function DisplayFactors(InputNumber:number):number[]
{
	var iCount = 1;
	var lstFactors:number[] = new Array();

	for(iCount = 1;iCount < InputNumber;iCount++)
	{
		if(InputNumber % iCount == 0)
			lstFactors.push(iCount);
	}

	return lstFactors;
}
var InputNumber:number = 90;
var lstFactors:number[] = DisplayFactors(InputNumber);
var iCount:number = 0;

console.log("Factors of " +InputNumber+"are as shown below:");

for(iCount = 0;iCount<lstFactors?.length;iCount++)
{
	console.log(lstFactors[iCount]);
}
```

Output:



Assignment1_FOUR.ts

Problem:

```
function Fibonaci(p_iNumber:number):void
{
	var iNumber1:number = 0;
	var iNumber2:number = 1;

	var Sum:number = 0;

	while(Sum < p_iNumber)
	{
		console.log(iNumber2);
		Sum = iNumber1+iNumber2;
		iNumber1 = iNumber2;
		iNumber2 = Sum;
	}
}

Fibonaci(12);
```

Output:

```
F:\Angular MEAN Stack\Assignments\Assignment 1>node Assignment_FIVE.js
1
1
2
3
5
8

F:\Angular MEAN Stack\Assignments\Assignment 1>
```

Assignment1_FIVE.ts

Program:

```
function IsItPrimeNumber(p_iNumber:number):boolean
{
	var f_boolStatus:boolean = false;
	var iCount:number = 1;

	if(p_iNumber == 2)
	{
		f_boolStatus = true;
		return f_boolStatus;
	}
	else if(IsEvenNumber(p_iNumber))
	{
		f_boolStatus = false;
		return f_boolStatus;
	}

	var iDivisibleCount:number = 0;

	for(iCount=1;iCount<=p_iNumber;iCount++)
	{
		if(p_iNumber % iCount == 0)
			iDivisibleCount++;
	}
	if(iDivisibleCount == 2)
	{
		f_boolStatus = true;
		return f_boolStatus;
	}
	else if(iDivisibleCount > 2)
	{
		f_boolStatus = false;
		return f_boolStatus;
	}

	return f_boolStatus;
}

function IsEvenNumber(p_iNumber:number):boolean
{
```

```
        if(p_iNumber % 2 == 0)
                return true;
        else
                return false;
}

var InputNumber:number = 12;

if(InputNumber == 1)
        console.log("1 is a non-prime number");
else
{
        if(IsItPrimeNumber(InputNumber))
                console.log(InputNumber+ " is Prime Number");
        else
                console.log(InputNumber + " is not Prime Number");

}
```

Output:

```
F:\Angular MEAN Stack\Assignments\Assignment 1>node Assignment_FOUR.js
12 is not Prime Number

F:\Angular MEAN Stack\Assignments\Assignment 1>
```