```
function PrintMaxNumber(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 No1 : number = 23;
var No2 : number = 89;
var No3 : number = 6;
var MaxNum : number = 0;
MaxNum = PrintMaxNumber(No1, No2, No3);
console.log("Maximum number is "+MaxNum)
```

```
Microsoft Windows [Version 10.0.22631.2715]
(c) Microsoft Corporation. All rights reserved.

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignments\Assignment1>tsc Question1.ts

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignments\Assignment1>node Question1.js
Maximum number is 89

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignments\Assignment1>node Question1.js
```

```
function CalculateArea (Radius : number) : number
{
    var PI : number = 3.14;
    var Area = PI*(Radius*Radius);
    return Area;
}

var CircleRadius : number = 5;
var CircleArea : number = CalculateArea(CircleRadius);

console.log("Area of circle is "+CircleArea);
```

```
C:\Windows\system32\cmd.e: \times + \times Development with MEAN Stack\Class Assignme nts\Assignment1>tsc Question2.ts

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>node Question2.js

Area of circle is 78.5

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>
```

```
function DisplayFactors (Num1 : number) : number[]
{
    var CurNum : number = 1;
    var Factors : number [] = [];

    while(CurNum < Num1)
    {
        if(Num1 % CurNum == 0)
        {
            Factors.push(CurNum);
        }
        CurNum++;
    }

    return Factors;
}

var No1 : number = 20;
console.log(DisplayFactors(No1));</pre>
```

```
D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>tsc Question3.ts

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>node Question3.js

[ 1, 2, 4, 5, 10 ]

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>
```

```
function CHkPrime(Num1 : number) : boolean
   if(Num1 == 2 || Num1 == 3 || Num1 == 5 || Num1 == 7)
    {
        return true;
   else if (Num1 % 2 == 0 || Num1 % 3 == 0 || Num1 % 5 == 0
|| Num1 % 7 == 0)
    {
       return false;
    }
   else
   {
       return true;
var No1 : number = 11;
var Result : boolean = CHkPrime(No1);
if(Result == true)
   console.log("Number "+No1+" is a Prime Number");
else
   console.log("Number "+No1+" not a Prime Number");
```

Output:

```
D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>tsc Question4.ts

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>Question4.js

D:\Courses\Full Stack Angular Web Development with MEAN Stack\Class Assignme nts\Assignment1>node Question4.js

Number 11 is a Prime Number
```

Question 5

```
function printFibonacci ( num : number) : number[]
{
   var fibonacciSeries : number[] = [];
   var curNum : number = 0;
   var preNum : number = 1;
   var temp : number = 0

   while (curNum <= num) {
      fibonacciSeries.push(curNum);
      temp = curNum + preNum;
      preNum = curNum;
      curNum = temp;
   }
   return fibonacciSeries
}

var No1 : number = 21;
console.log(printFibonacci(No1));</pre>
```