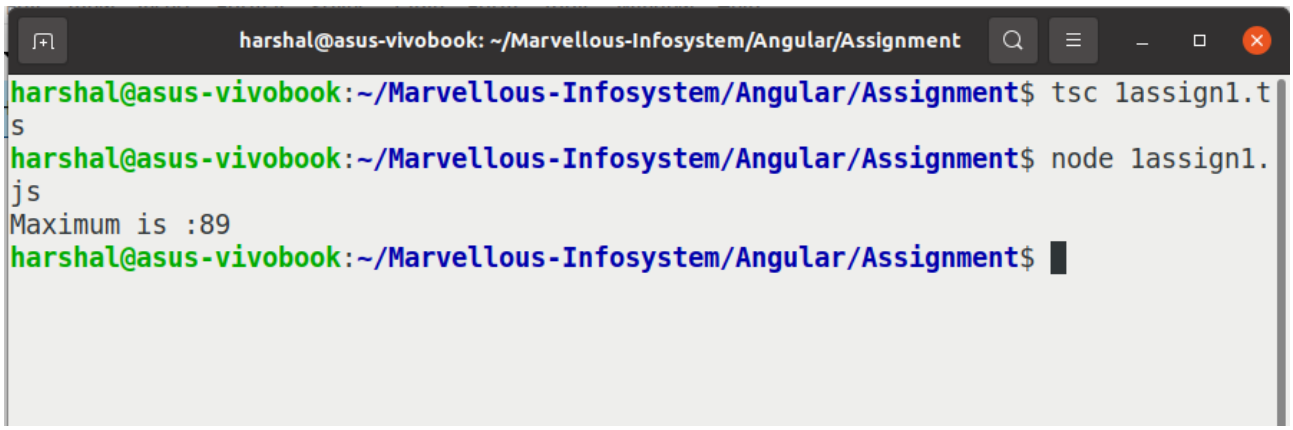
Assignment No 1

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(value1:number,value2:number,value3:number):void
{
if(value1 < value2 && value2 > value3)
{
console.log("Maximum is :"+value2);
}
else
if(value2 < value1 && value1 > value2)
{
console.log("Maximum is :"+value1);
}
else
if(value1 < value3 && value3 > value2)
{
console.log("Maximum is :"+value3);
}
}
var no1 : number = 23;
var no2 : number = 89;
var no3 : number = 6;
Maximum(no1,no2,no3);
```



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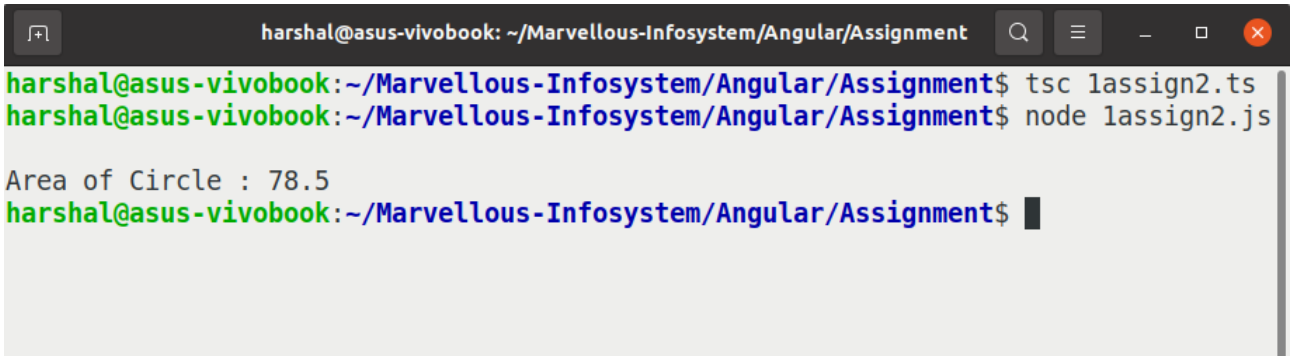
2. Write a typescript program which contains one function named as Area. That function should calculate area of circle. Accept value of radius from user and return its area. Default value of PI should be 3.14 if it is not provided by the caller.
Input : 5
Output: Area of circle is 78.5

```
function Area(value1:number):number
{
var Ans:number = 3.14 * value1 * value1;
return Ans;
}
var radius : number = 5;
var iRet:number = 0;
iRet = Area(radius);
console.log("Area of Circle : "+iRet);
```



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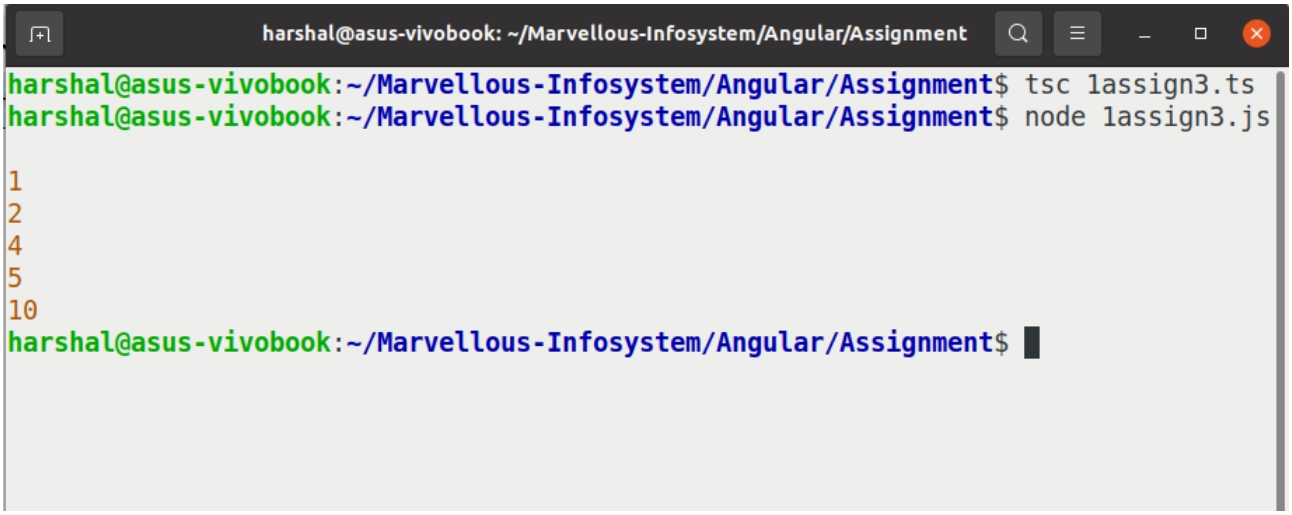
3. Write a typescript program which contains one function named as DisplayFactors. That function should accept one number and display factors of that number.

Input : 20
Output: 1 2 4 5 10

```
function Factor(value1:number):void
{
var iCnt:number = 0;
for(iCnt = 1;iCnt < value1;iCnt++)
{
if(value1 % iCnt == 0)
{
console.log(iCnt);
}
}
}
var fact : number = 20;
Factor(fact);
```



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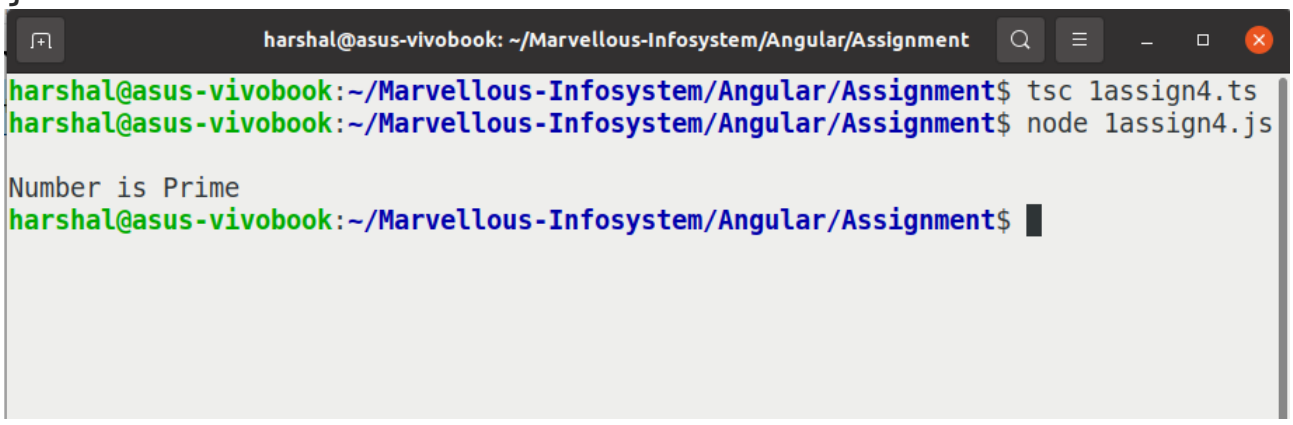
4. Write a typescript program which contains one function named as ChkPrime. That function should accept one number and it should return true if the given number is prime and otherwise return false.
Input : 11
Output: It is prime number

```
function Prime(value1:number):boolean
{
var iCnt:number = 0;
for(iCnt = 2;iCnt < value1;iCnt++)
{
if(value1 % iCnt != 0)
{
return true
}
else
{
return false
}
}
}
var no : number = 11;
var bRet : boolean;
bRet = Prime(no);
if(bRet == true)
{
console.log("Number is Prime")
}
else
{
console.log("Number is not Prime")
}
```



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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(value1:number):void
{
var iCnt:number = 0;
var ans:number = 0;
var no1 : number = 0;
var no2:number = 1;
for(iCnt = 1;iCnt < value1;iCnt++)
{
ans = no1 + no2;
if(value1 < ans)
{
break;
}
console.log(ans);
no1 = no2;
no2 = ans;
}
}
var no : number = 21;
var bRet : boolean;
Fibonacci(no);
```