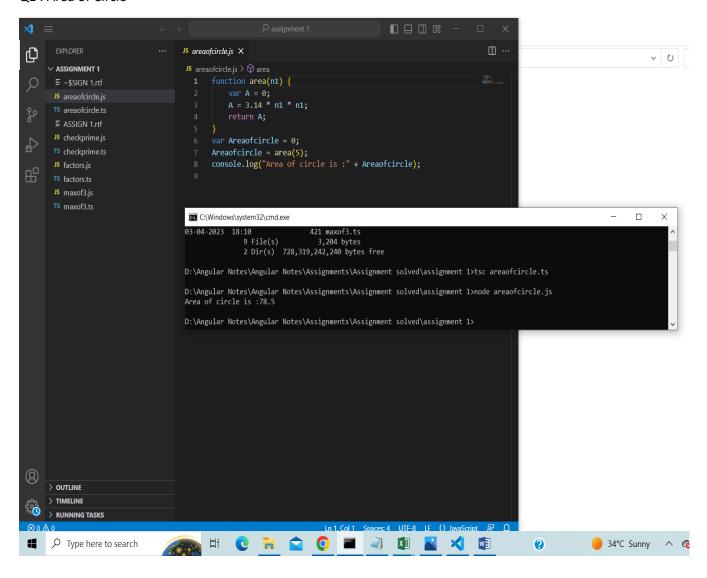
Q1. Area of Circle



Q2 Check Prime Number

```
function isPrime(num) {
    if (num <= 1) {
        return false;
    }
    for (var i = 2; i <= Math.sqrt(num); i++) {
        if (num % i === 0) {
            return false;
        }
    }
    return true;
}</pre>
```

```
var userInput = 17; // replace with user input
if (isPrime(userInput)) {
    console.log("".concat(userInput, " is a prime number"));
else {
    console.log("".concat(userInput, " is not a prime number"));
function primo(num) {
    if (num <= 1) {
        return false;
    for (var i = 2; i <= Math.sqrt(num); i++) {</pre>
        if (num % i === 0) {
            return false;
    return true;
var UIP = 11;
if (primo(UIP)) {
    console.log("".concat(UIP, " is a prime number"));
else {
    console.log("".concat(UIP, " is a not a prime number"));
```

OutPut:

```
D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>toc checkprime.ts

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>node checkprime.js

11 is a prime number

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>
```

Q3. Show factors:

```
function Factors(num: number): number[]
{
   const factors: number[] = [];

   for (let i = 1; i <= num; i++) {
      if (num % i === 0) {
        factors.push(i);
      }
   }
   return factors;
}

const num = 20;
const factor = Factors(num);
console.log(`The factors of ${num} are: ${factor.join(", ")}`);</pre>
```

Output:

Q4. Maximum number:

```
function Maximum(n1 : number, n2 : number, n3 : number) : void
{
   if(n1>n2 && n1>n3) {
      console.log("largest number is :" + n1)
   }
   else if (n2>= n1 && n2 >= n3) {
      console.log("largest number is :" + n2)
```

```
}
else {
    console.log("largest number is :" + n3)
}

var A : number = 23
var B : number = 89
var C : number = 6
Maximum(A,B,C);
```

Output:

```
The factors of 20 are: 1, 2, 4, 5, 10, 20

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>tsc maxof3.ts

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>node maxof3.js
largest number is :89

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>

D:\Angular Notes\Angular Notes\Assignments\Assignment solved\assignment 1>
```