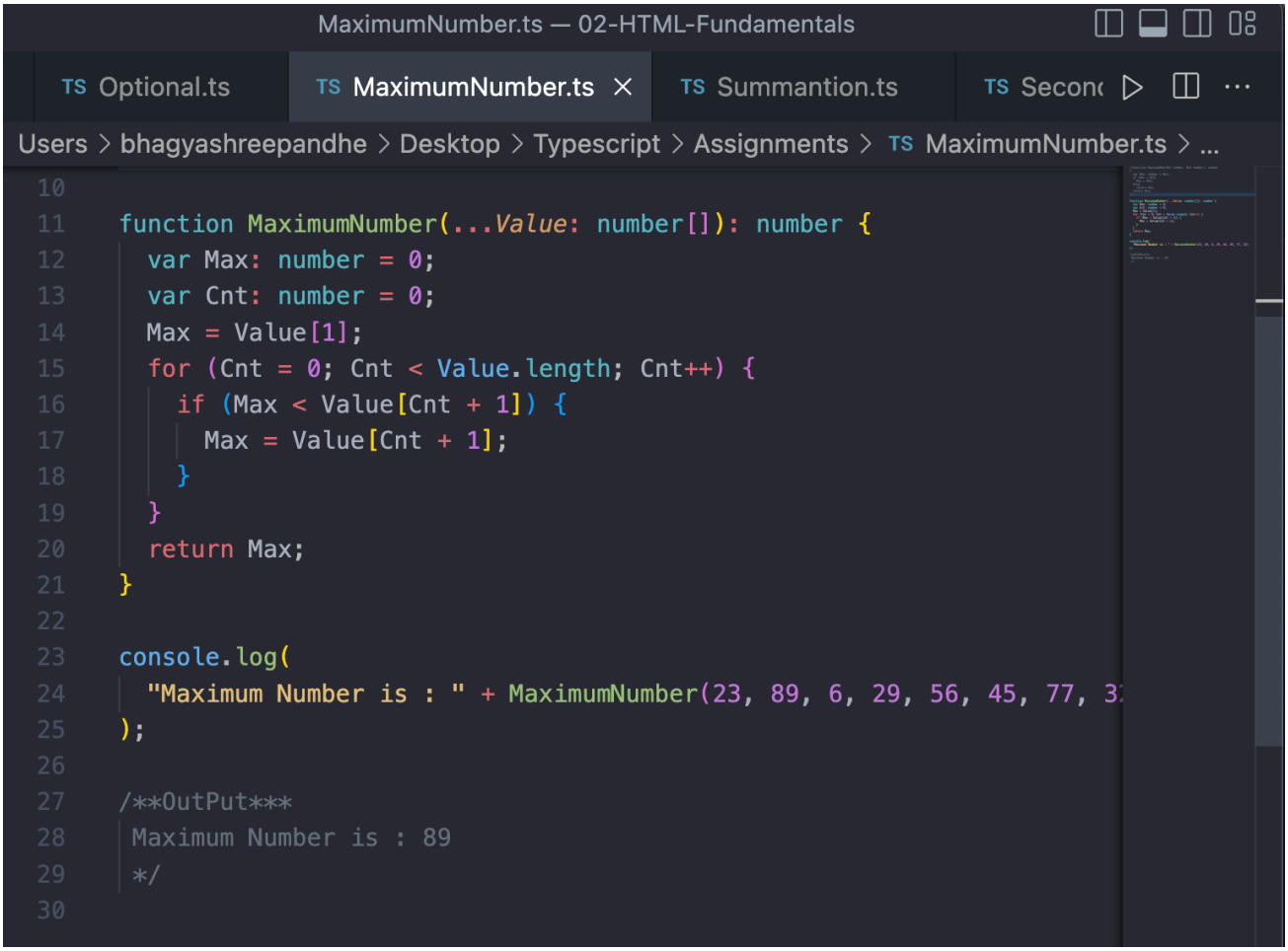
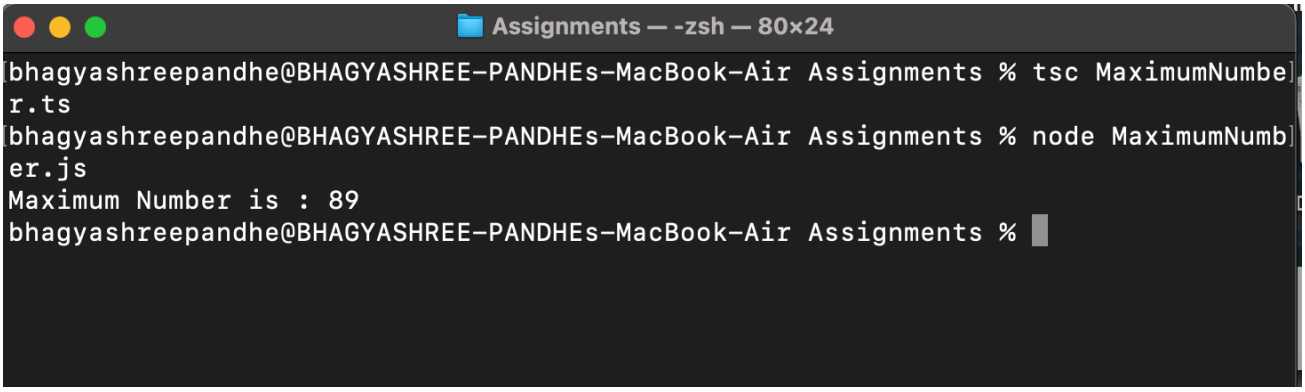
Assignment 2:
Q1:

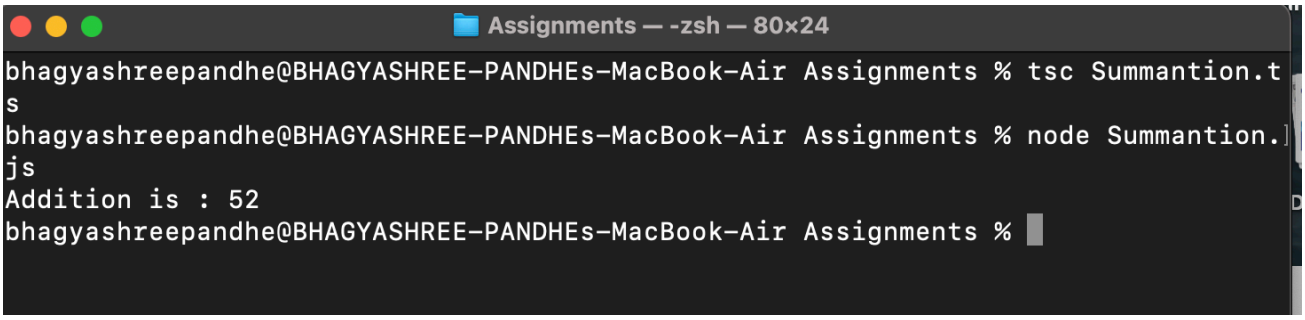




Q2

Summantion.ts — 02-HTML-Fundamentals
nts.ts 1
TS Optional.ts
TS MaximumNumber.ts
TS Summantion.ts
Users > bhagyashreepandhe > Desktop > Typescript > Assignments > TS Summantion.ts > ...
function Summantion(...ArrayNumbers: number[]): number {
var Sum: number = 0;
var Cnt: number = 0;
for (Cnt = 0; Cnt < ArrayNumbers.length; Cnt++) {
Sum = Sum + ArrayNumbers[Cnt];
//console.log(Sum + " ");
}
return Sum;
}
console.log("Addition is : " + Summantion(23, 6, 7, 4, 5, 7));
/**
* Output
* Addition is : 52
*/

Output:


Assignments — -zsh — 80×24
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % tsc Summantion.ts
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % node Summantion.js
Addition is : 52
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments %

Q3:

SecondMaximum.ts — 02-HTML-Fundamentals

TS MaximumNumber.ts | TS Summantion.ts | TS SecondMaximum.ts

Users > bhagyashreepandhe > Desktop > Typescript > Assignments > TS SecondMaximum.ts > ...

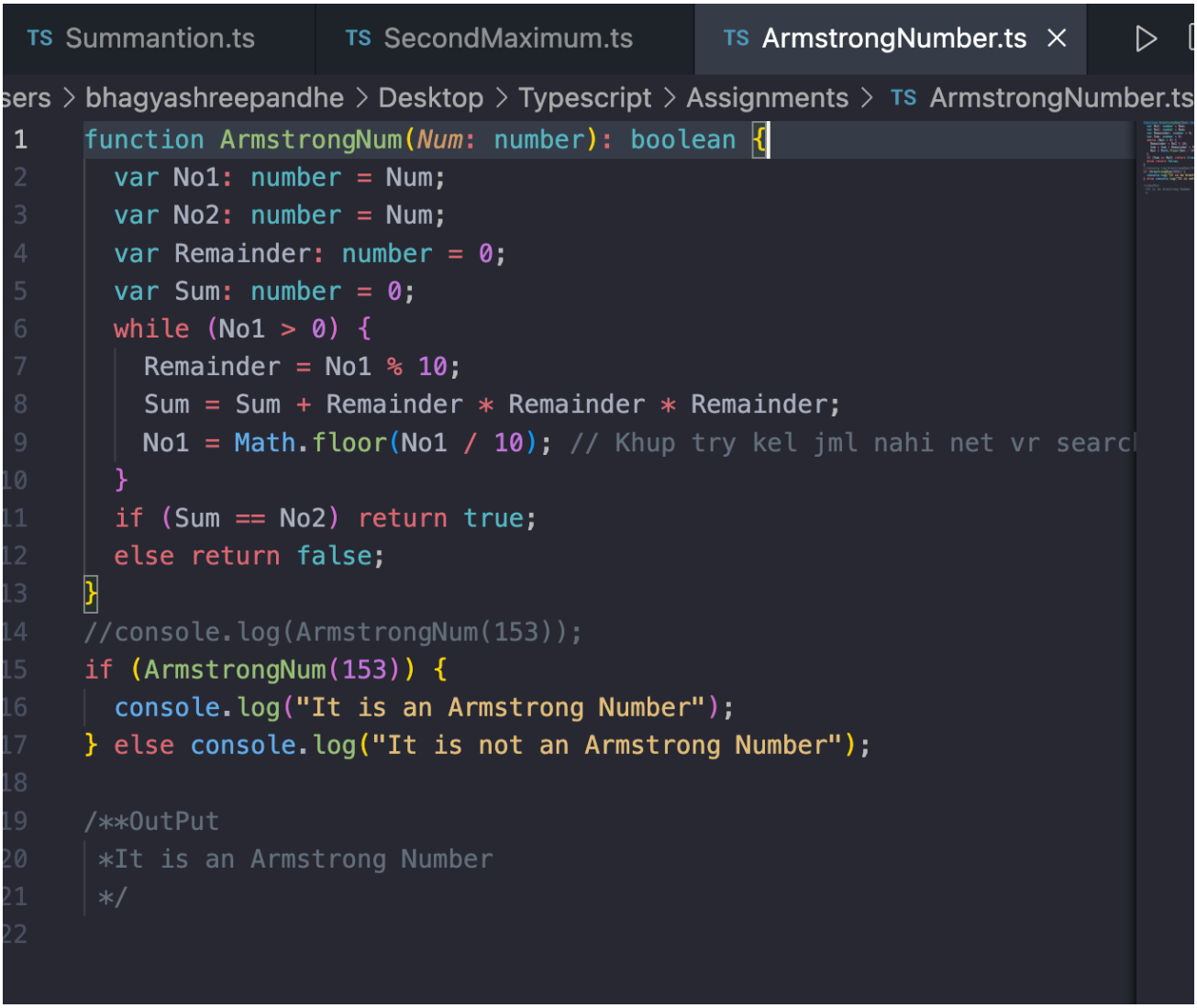
```ts
function SecondMaximum(...Value: number[]): number {
  var Max: number = 0;
  var Cnt: number = 0;
  Max = Value[0];
  var SecondMax: number = Max;
  for (Cnt = 0; Cnt < Value.length; Cnt++) {
    if (Max < Value[Cnt + 1]) {
      SecondMax = Max; //23
      Max = Value[Cnt + 1]; //89
    } else if (SecondMax < Value[Cnt + 1] && Max > Value[Cnt + 1]) {
      SecondMax = Value[Cnt + 1]; //29 56 77
    }
  }

  return SecondMax;
}

console.log(
  "Second Maximum number is :" + SecondMaximum(23, 89, 6, 29, 56, 45,
);

/*Output
Second Maximum number is :77
*/
```

Output:

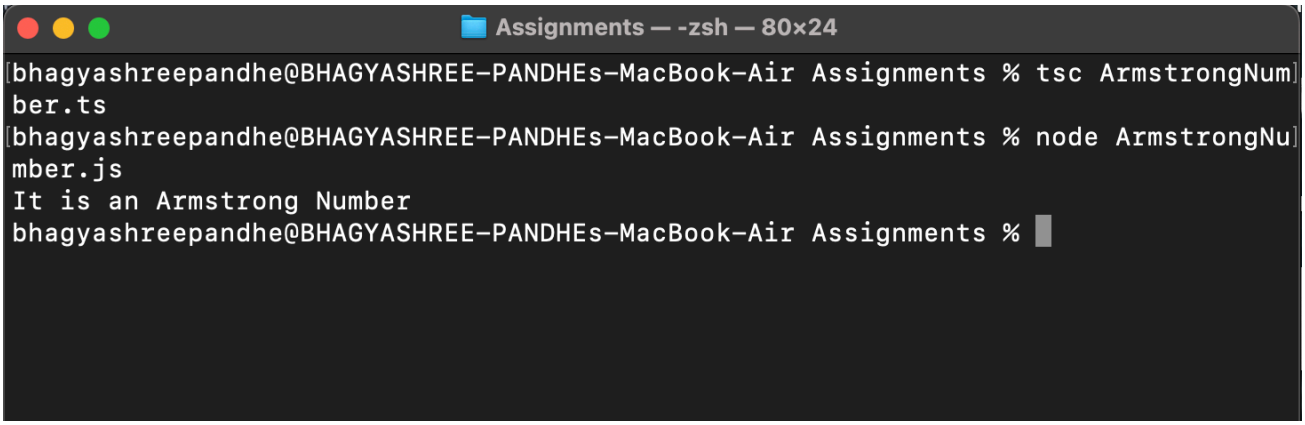
Assignments — -zsh — 80×24

```
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % tsc SecondMaximum.ts
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % node SecondMaximum.js
Second Maximum number is :77
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments %
```

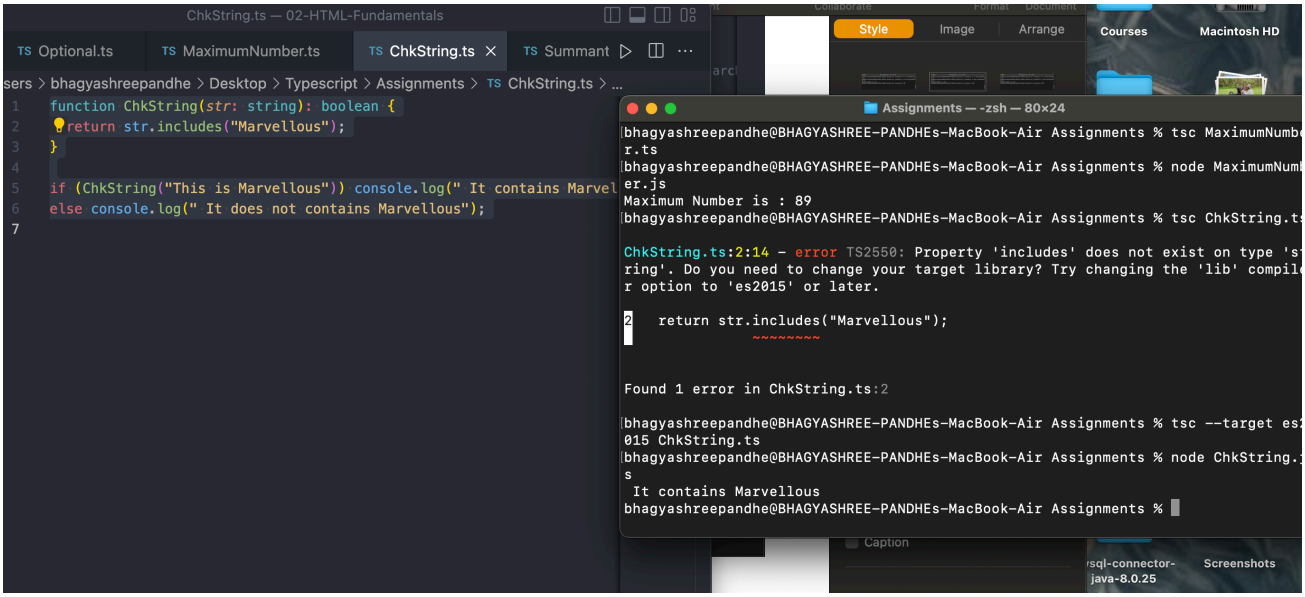
Q4:

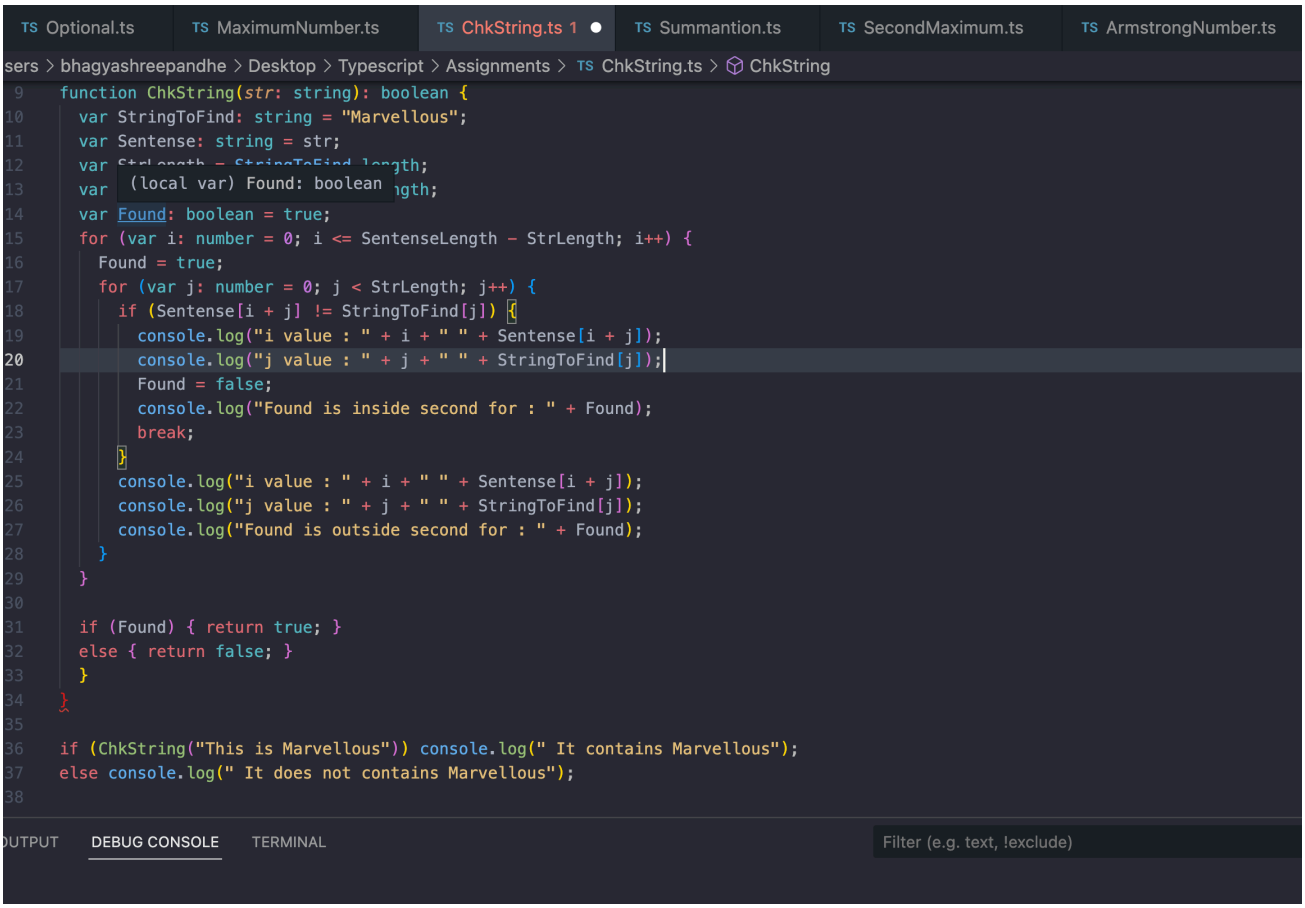

TS Summantion.ts
TS SecondMaximum.ts
TS ArmstrongNumber.ts
sers > bhagyashreepandhe > Desktop > Typescript > Assignments > TS ArmstrongNumber.ts
function ArmstrongNum(Num: number): boolean {
var No1: number = Num;
var No2: number = Num;
var Remainder: number = 0;
var Sum: number = 0;
while (No1 > 0) {
Remainder = No1 % 10;
Sum = Sum + Remainder * Remainder * Remainder;
No1 = Math.floor(No1 / 10); // Khup try kel jml nahi net vr searc
}
if (Sum == No2) return true;
else return false;
}
//console.log(ArmstrongNum(153));
if (ArmstrongNum(153)) {
console.log("It is an Armstrong Number");
} else console.log("It is not an Armstrong Number");
/**OutPut
*It is an Armstrong Number
*/

Output:

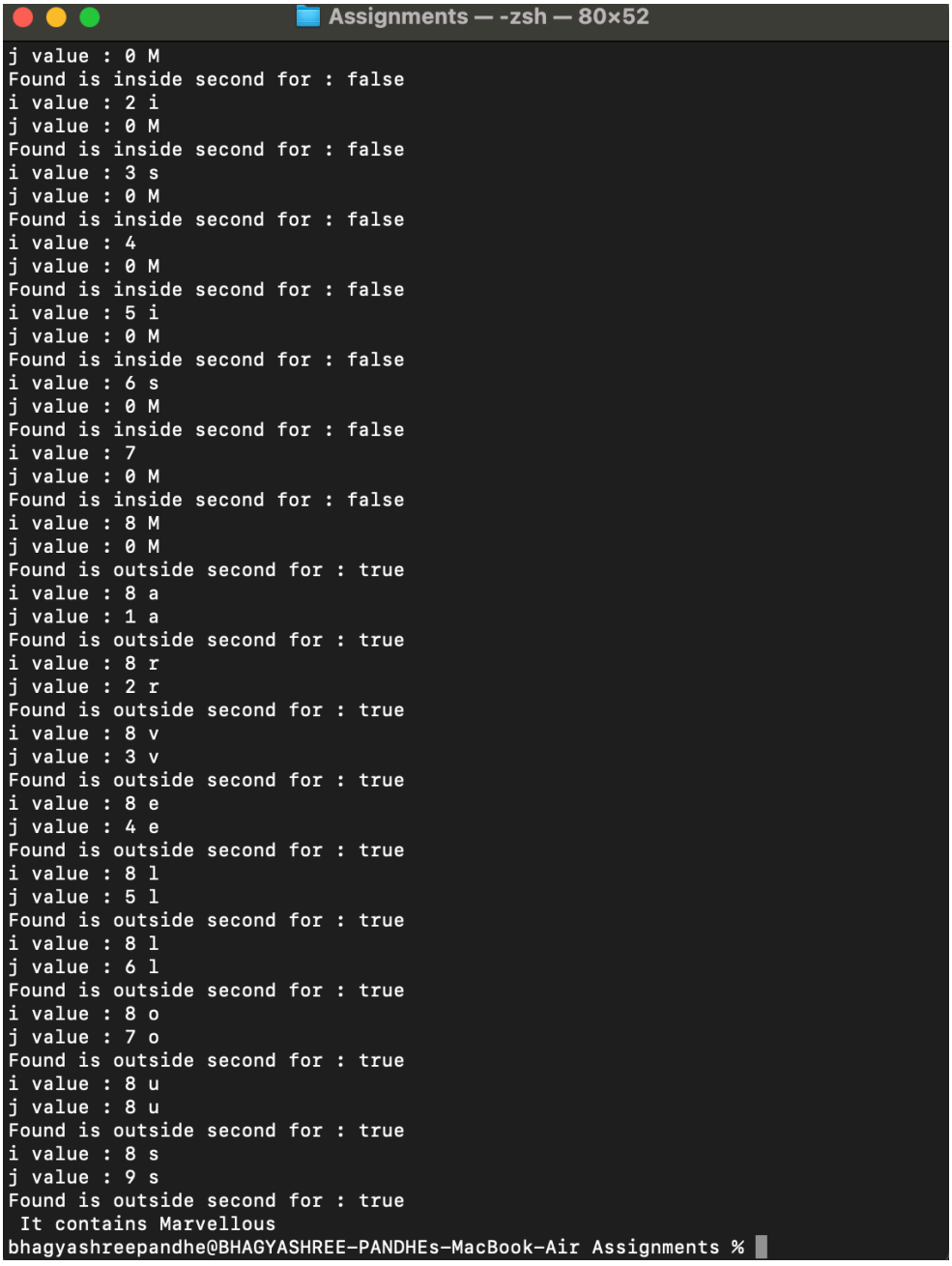

Assignments — -zsh — 80×24
[bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % tsc ArmstrongNum
ber.ts
[bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % node ArmstrongNu
mber.js
It is an Armstrong Number
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments %

Q5:


ChkString.ts — 02-HTML-Fundamentals
Optional.ts
MaximumNumber.ts
ChkString.ts
Summant
sers > bhagyashreepandhe > Desktop > Typescript > Assignments > ChkString.ts > ...
function ChkString(str: string): boolean {
return str.includes("Marvellous");
}
if (ChkString("This is Marvellous")) console.log(" It contains Marvel
else console.log(" It does not contains Marvellous");
Assignments — -zsh — 80×24
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % tsc MaximumNumb
r.ts
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % node MaximumNum
er.js
Maximum Number is : 89
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % tsc ChkString.t
ChkString.ts:2:14 - error TS2550: Property 'includes' does not exist on type 's
ring'. Do you need to change your target library? Try changing the 'lib' compil
r option to 'es2015' or later.
2 return str.includes("Marvellous");
~~~~~~~~
Found 1 error in ChkString.ts:2
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % tsc --target es
015 ChkString.ts
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments % node ChkString.
s
It contains Marvellous
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments %
Style
Image
Arrange
Courses
Macintosh HD
Caption
Screenshots


Optional.ts
MaximumNumber.ts
ChkString.ts 1
Summantion.ts
SecondMaximum.ts
ArmstrongNumber.ts
sers > bhagyashreepandhe > Desktop > Typescript > Assignments > ChkString.ts > ChkString
function ChkString(str: string): boolean {
var StringToFind: string = "Marvellous";
var Sentense: string = str;
(local var) Found: boolean
var Found: boolean = true;
for (var i: number = 0; i <= SentenseLength - StrLength; i++) {
Found = true;
for (var j: number = 0; j < StrLength; j++) {
if (Sentense[i + j] != StringToFind[j]) {
console.log("i value : " + i + " " + Sentense[i + j]);
console.log("j value : " + j + " " + StringToFind[j]);
Found = false;
console.log("Found is inside second for : " + Found);
break;
}
console.log("i value : " + i + " " + Sentense[i + j]);
console.log("j value : " + j + " " + StringToFind[j]);
console.log("Found is outside second for : " + Found);
}
}
if (Found) { return true; }
else { return false; }
}
}
if (ChkString("This is Marvellous")) console.log(" It contains Marvellous");
else console.log(" It does not contains Marvellous");
OUTPUT
DEBUG CONSOLE
TERMINAL
Filter (e.g. text, !exclude)

Output :
~~~~~~~~


Assignments — -zsh — 80×52
j value : 0 M
Found is inside second for : false
i value : 2 i
j value : 0 M
Found is inside second for : false
i value : 3 s
j value : 0 M
Found is inside second for : false
i value : 4
j value : 0 M
Found is inside second for : false
i value : 5 i
j value : 0 M
Found is inside second for : false
i value : 6 s
j value : 0 M
Found is inside second for : false
i value : 7
j value : 0 M
Found is inside second for : false
i value : 8 M
j value : 0 M
Found is outside second for : true
i value : 8 a
j value : 1 a
Found is outside second for : true
i value : 8 r
j value : 2 r
Found is outside second for : true
i value : 8 v
j value : 3 v
Found is outside second for : true
i value : 8 e
j value : 4 e
Found is outside second for : true
i value : 8 l
j value : 5 l
Found is outside second for : true
i value : 8 l
j value : 6 l
Found is outside second for : true
i value : 8 o
j value : 7 o
Found is outside second for : true
i value : 8 u
j value : 8 u
Found is outside second for : true
i value : 8 s
j value : 9 s
Found is outside second for : true
It contains Marvellous
bhagyashreepandhe@BHAGYASHREE-PANDHEs-MacBook-Air Assignments %