

js app.js

1



TERMINAL

1 powershell



PS C:\js>

# Objects



**laptop object**

**CPU**

**RAM**

**Storage**

**Brand**



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JS app.js

JS app.js &gt; ...

```
2 let alien = {
3   name : 'Navin',
4   tech : 'JS',
5   laptop : {
6     cpu : 'i7',
7     ram : 4,
8     brand : 'Asus'
9   }
10 }
11
12 console.log(alien.laptop.brand.length);
```

★ (Nullish Coalescing Operator) is denoted as (??) Double Question Mark.

app.js - js - Visual Studio Code

TERMINAL

1: powershell

```
PS C:\js> node app.js
{ name: 'Navin', tech: 'JS' }
PS C:\js> node app.js
{ name: 'Navin', tech: 'JS' }
PS C:\js> node app.js
{
  name: 'Navin',
  tech: 'JS',
  laptop: { cpu: 'i7', ram: 4, brand: 'Asus' }
}
PS C:\js> node app.js
JS
PS C:\js> node app.js
{ cpu: 'i7', ram: 4, brand: 'Asus' }
PS C:\js> node app.js
Asus
PS C:\js> node app.js
4
PS C:\js>
fwd-i-search: _
```



JS first.js

```
1 let data = 8           // number
2 let user = "Navin"     // string
3
4
```



OUTPUT



Code



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# Data type

**Primitive**

**Object**

- Number
- String
- Boolean
- Null
- Undefined
- Symbol



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first.js — JS

JS first.js

JS first.js > show

```
1 function show(){  
2   console.log("Hi");  
3 }  
  
show();
```

log()

show()

navin@MacBook-Pro JS % node first.js  
navin@MacBook-Pro JS % node first.js  
Hi  
navin@MacBook-Pro JS %

Ln 2, Col 23 (10 selected) Spaces: 4 UTF-8

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JS Codes

0%

JS first.js

JS first.js

```
1 num1=34 //old way
2 console.log(num1)
3 let num2=65 //new way
4 console.log(num2)
5 let username="Nithish's Mobile"
6 console.log(username)
7 let userName //camel case
8 let user_name //snake case
9 let radius=5
10 const pi=3.14// value cant be changed
11 area=pi*radius*radius
12 console.log(area)
13
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Code

[Running] node "c:\Users\nakka\OneDrive\Desktop\JS Codes\first.js"

34

65

Nithish's Mobile

78.5

[Done] exited with code=0 in 0.189 seconds

> OUTLINE

> TIMELINE

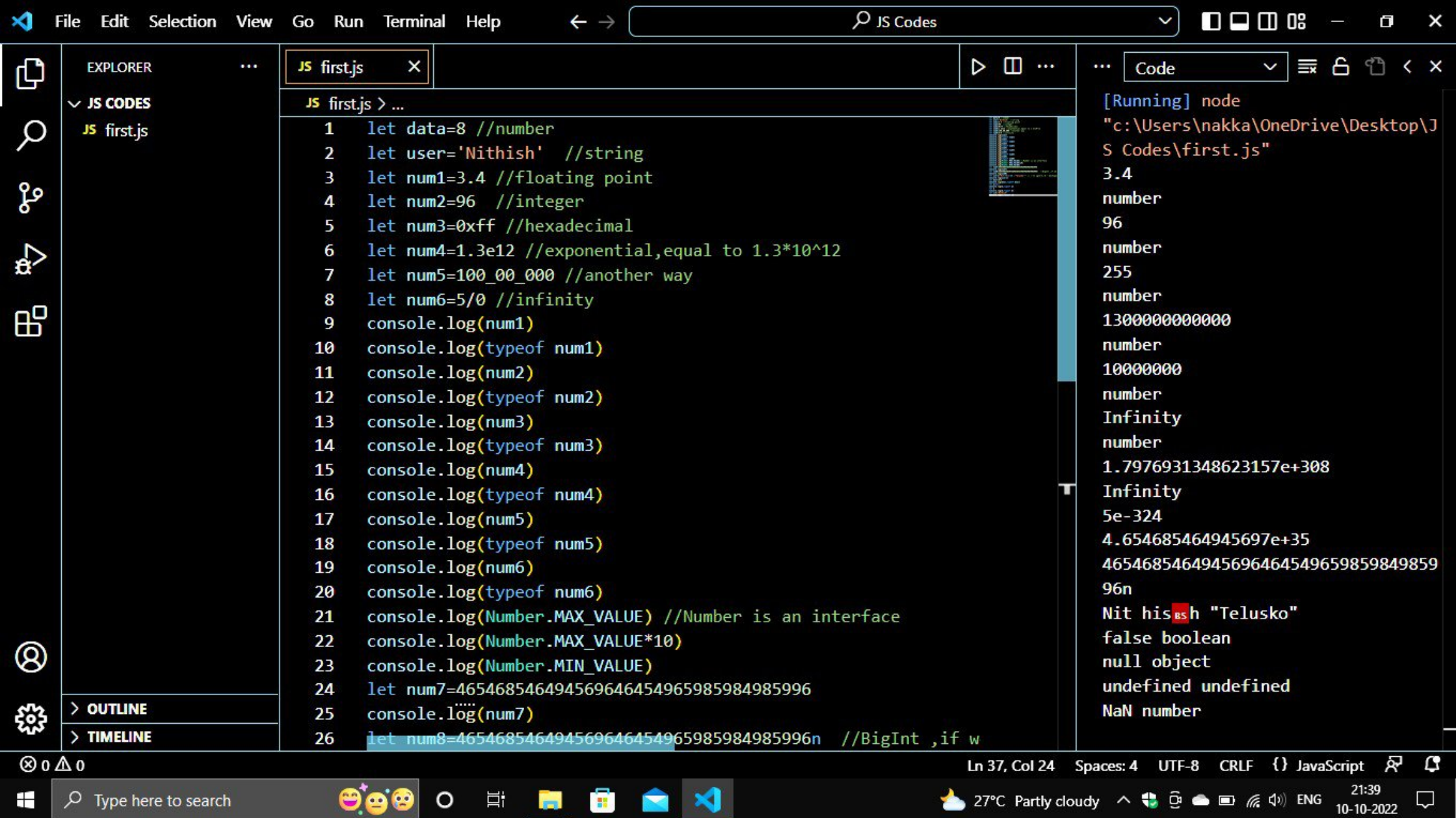
Ln 12, Col 18 Spaces: 4 UTF-8 CRLF JavaScript 20:49 10-10-2022

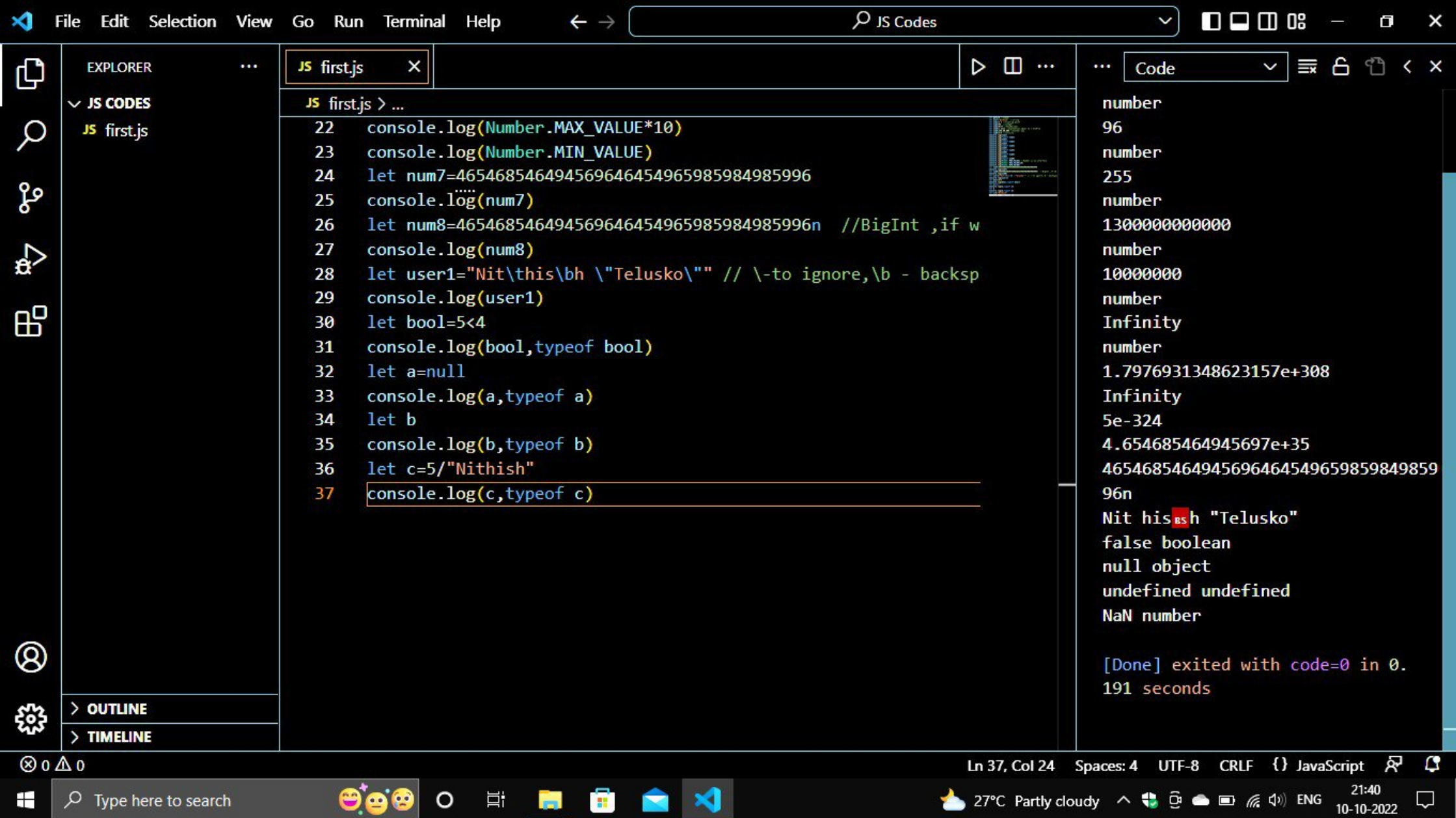
Type here to search

27°C Mostly cloudy

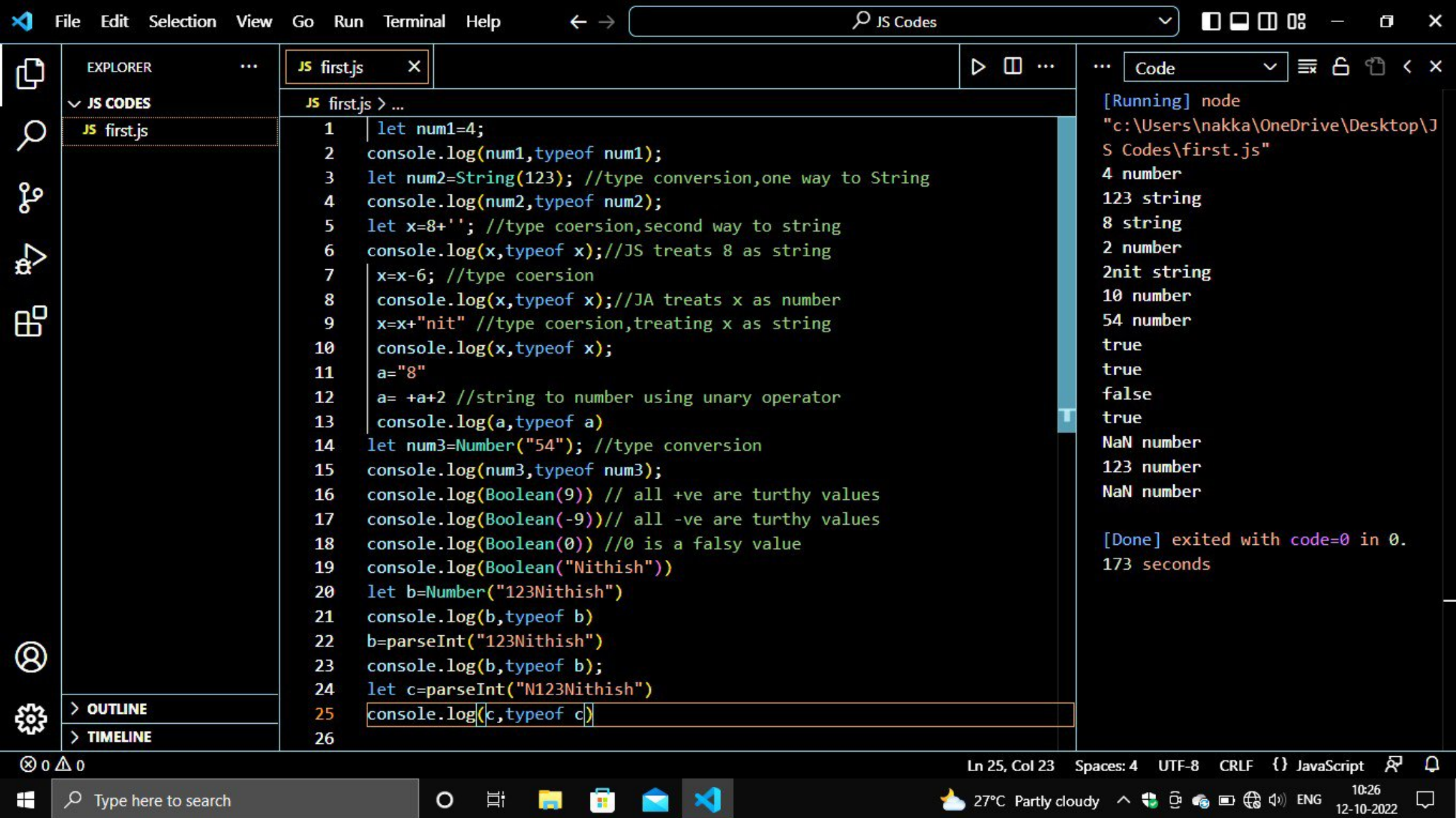
ENG



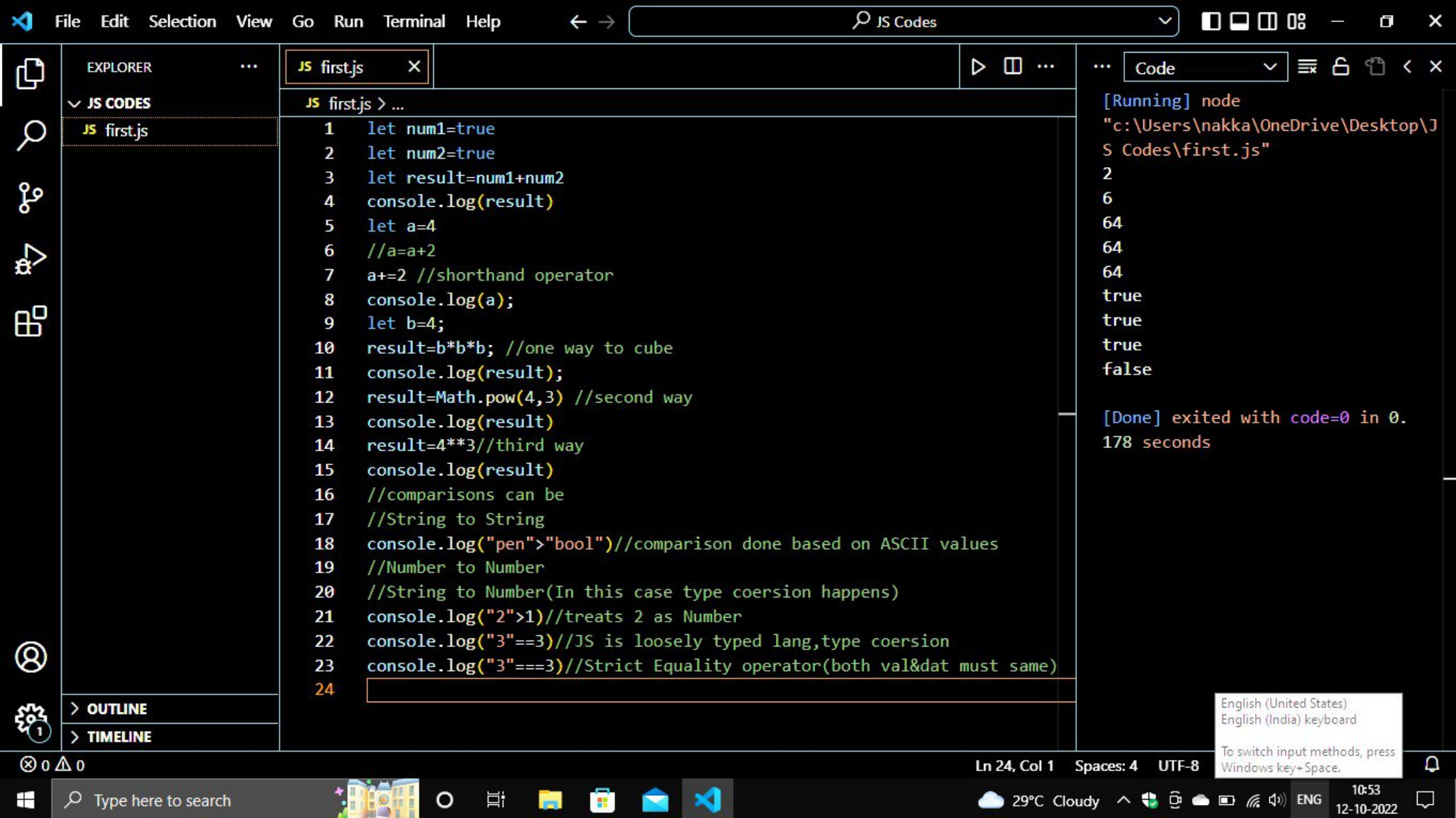


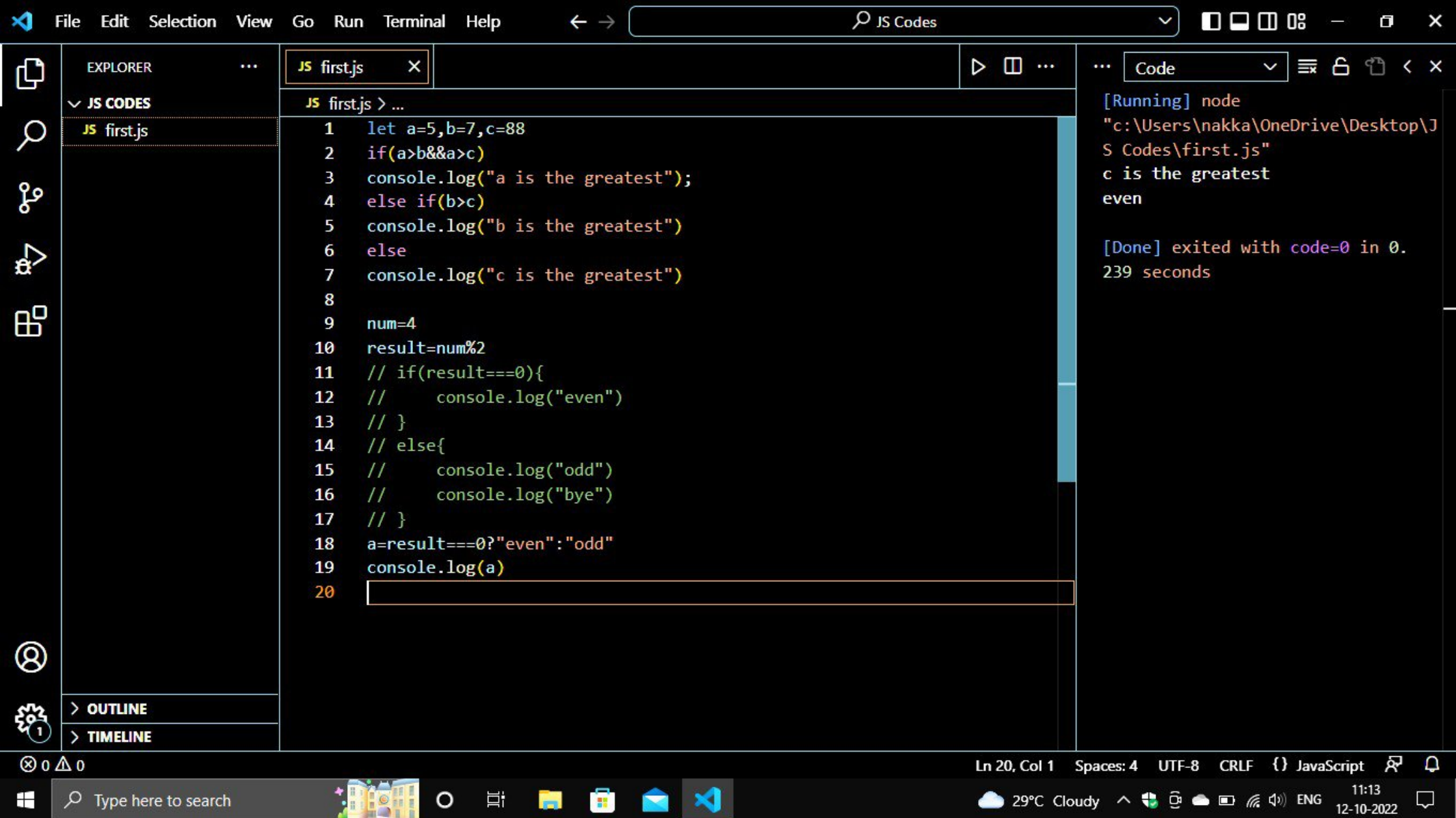












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JS Codes

EXPLORER

JS CODES

JS first.js

OUTLINE

TIMELINE

JS first.js

JS first.js > day

```
1 //Mon - 4am
2 //Tue - 7am
3 //sun - 9am
4
5 let day="Tuesday"
6 switch(day){
7     case "Monday":
8         console.log("4am")
9         break;
10    case "Tuesday":
11    case "Sunday":
12        console.log("7am")
13        break;
14    default:
15        console.log("bye...")
16 }
```

Code

```
[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
4am

[Done] exited with code=0 in 0.
215 seconds

[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
7am

[Done] exited with code=0 in 0.
237 seconds
```

Ln 5, Col 14Spaces: 4UTF-8CRLFJavaScriptENG11:2312-10-2022

EXPLORER

JS CODES

JS first.js

JS first.js

```
1 let num1=4;
2 let num2=9;
3 result=num1+num2;
4 console.log("The sum of "+num1+" and "+num2+" is "+result);//one way
5 console.log(`The sum of ${num1} and ${num2} is ${result}`);//Template literal
6 console.log(`My name is
7 Nithish`)//Template literal prints as it is
8
9
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Code

[Running] node "c:\Users\nakka\OneDrive\Desktop\JS Codes\first.js"

The sum of 4 and 9 is 13  
The sum of 4 and 9 is 13  
My name is  
Nithish

[Done] exited with code=0 in 0.185 seconds

> OUTLINE

> TIMELINE



EXPLORER

JS CODES

JS firstjs

JS firstjs

```
1  /*****Loops*****/
2  let i=1 //Initialization
3  while(i<=5 ){ //Condition
4      console.log("Hi")
5      i++;      //Increment/Decrement
6  }
7  let j=1
8  do{
9      console.log("Nithish")
10     j++
11 }while(j<=0)//cond is false but still printing
12
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

Code

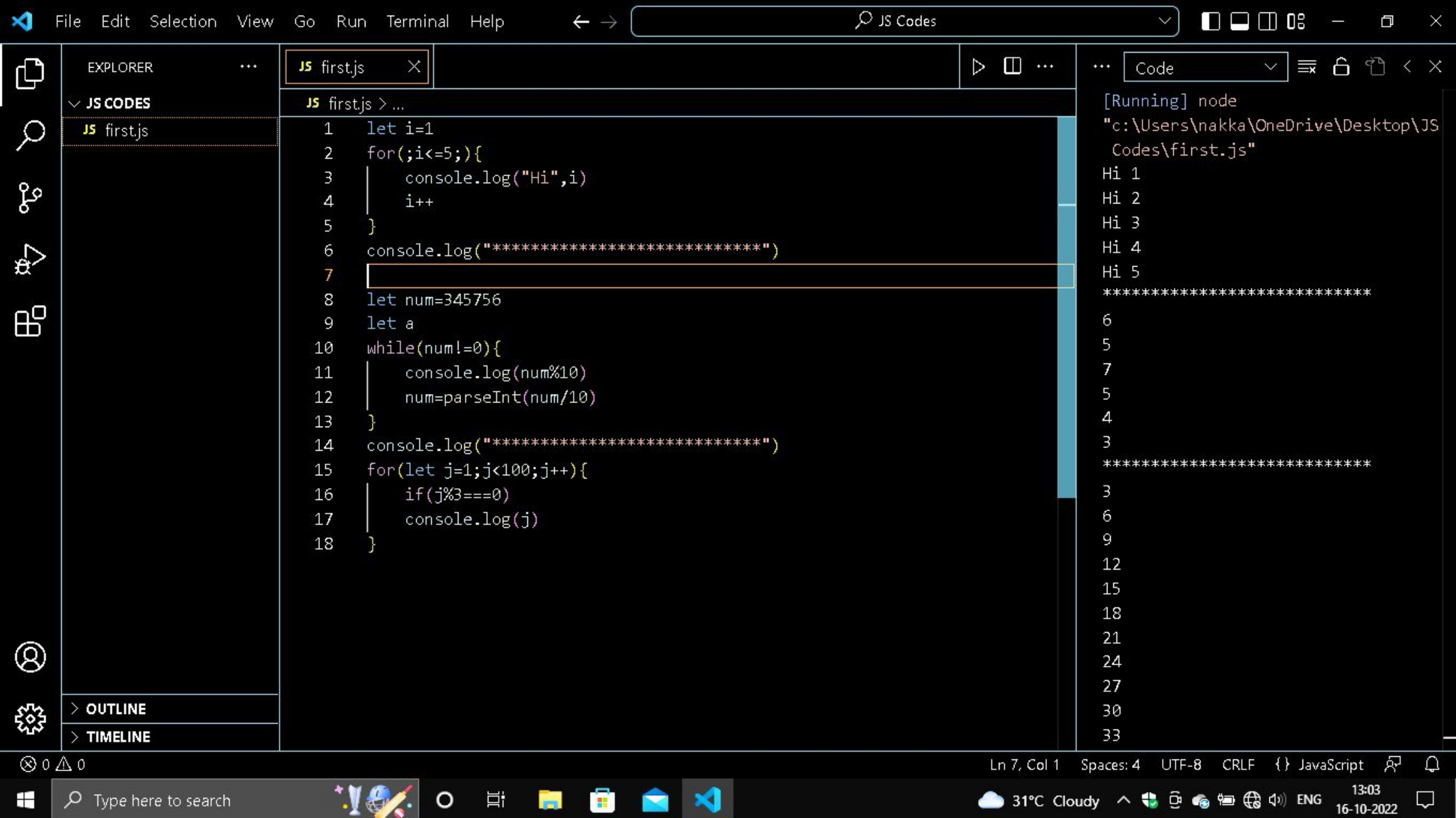
[Running] node "c:\Users\nakka\OneDrive\Desktop\JS Codes\first.js"

Hi  
Hi  
Hi  
Hi  
Hi  
Hi  
Nithish

[Done] exited with code=0 in 0.182 seconds

> OUTLINE

> TIMELINE



EXPLORER

JS CODES

JS first.js

JS first.js

```
1 input='name'
2 let alien={
3     name:"Nithish", // key value pair
4     tech:"JS",
5     'work exp':4
6 } //object literal
7 console.log(typeof alien)
8 console.log(alien)
9 console.log(alien.name) //one way
10 console.log(alien['name']) //second way
11 console.log(alien['work exp'])
12 console.log(alien[input]) //use of second way
13
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

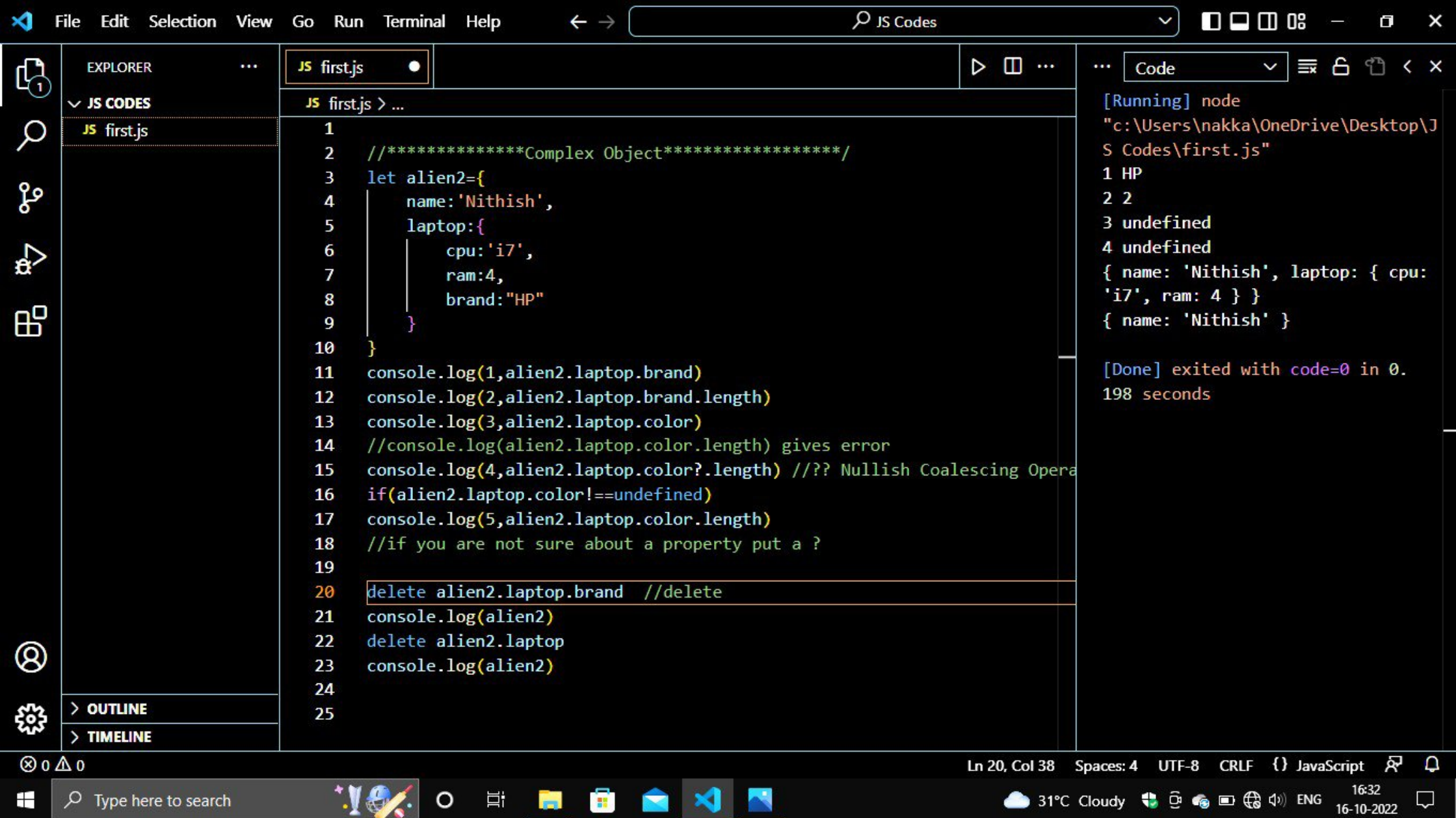
Code

```
[Running] node "c:\Users\nakka\OneDrive\Desktop\JS Codes\tempCodeRunnerFile.js"
object
{ name: 'Nithish', tech: 'JS', 'work exp': 4 }
Nithish
Nithish
4
Nithish

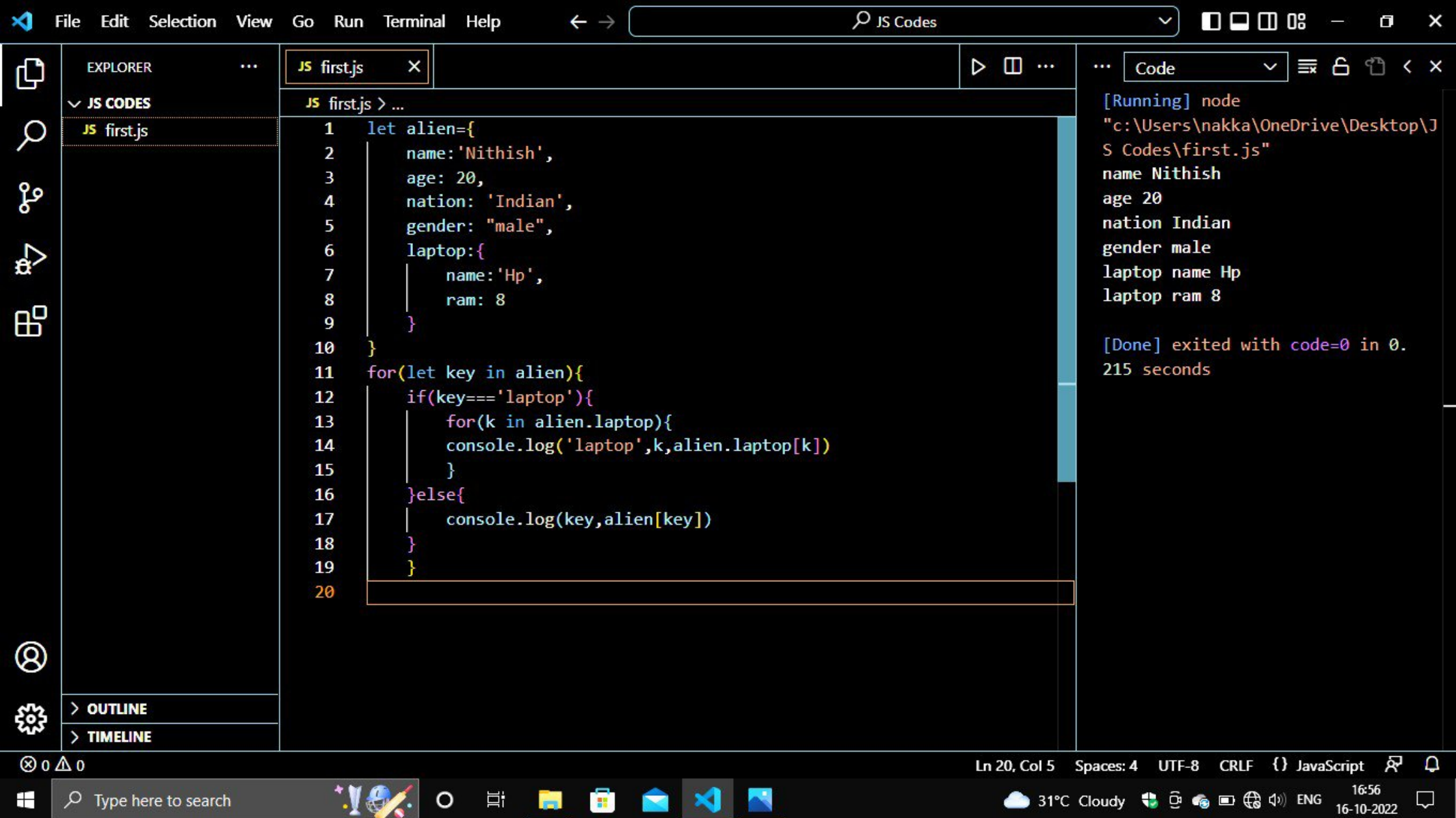
[Done] exited with code=0 in 0.199 seconds
```

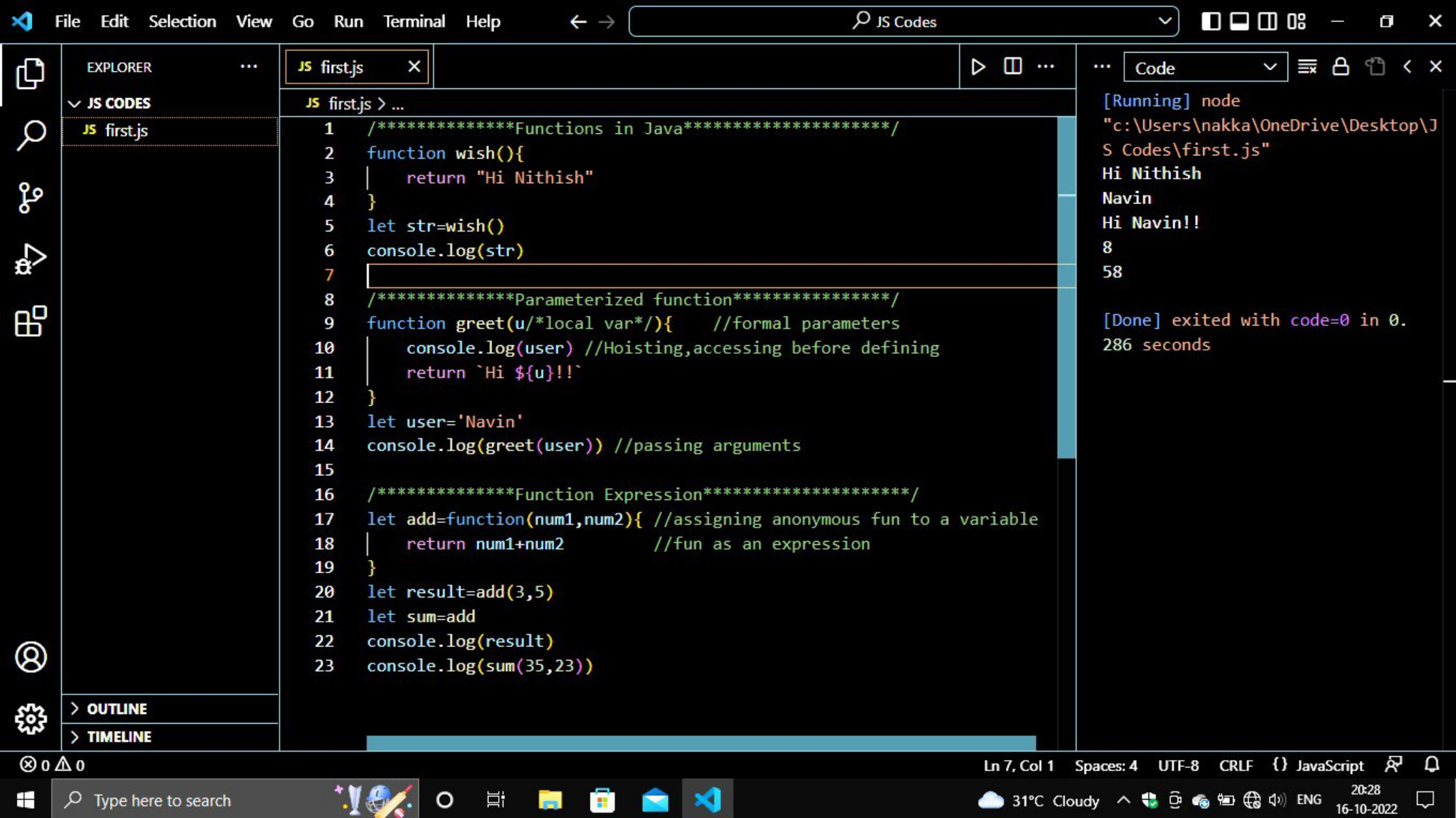
> OUTLINE

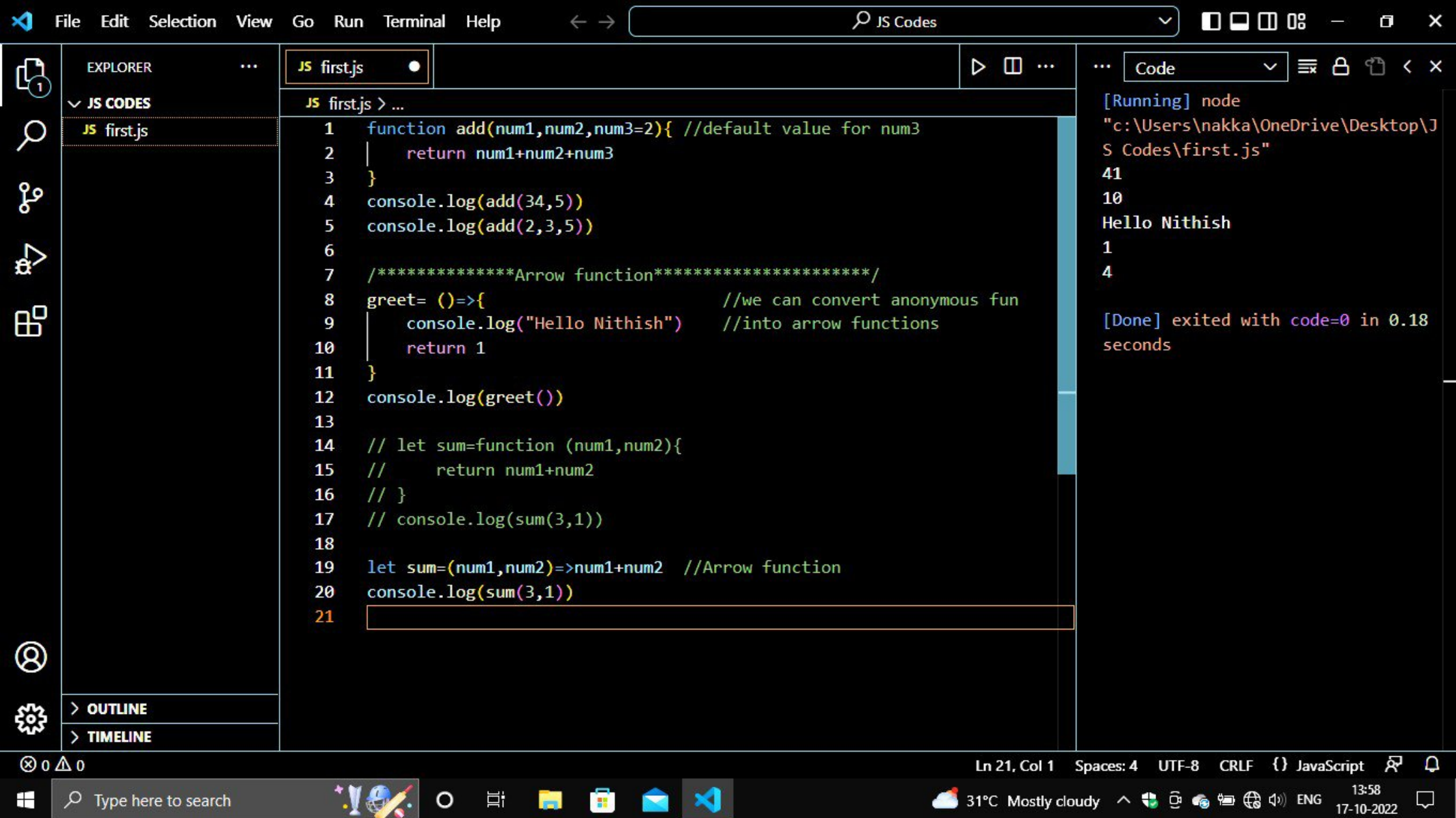
> TIMELINE













EXPLORER

JS CODES

JS firstjs

OUTLINE

TIMELINE

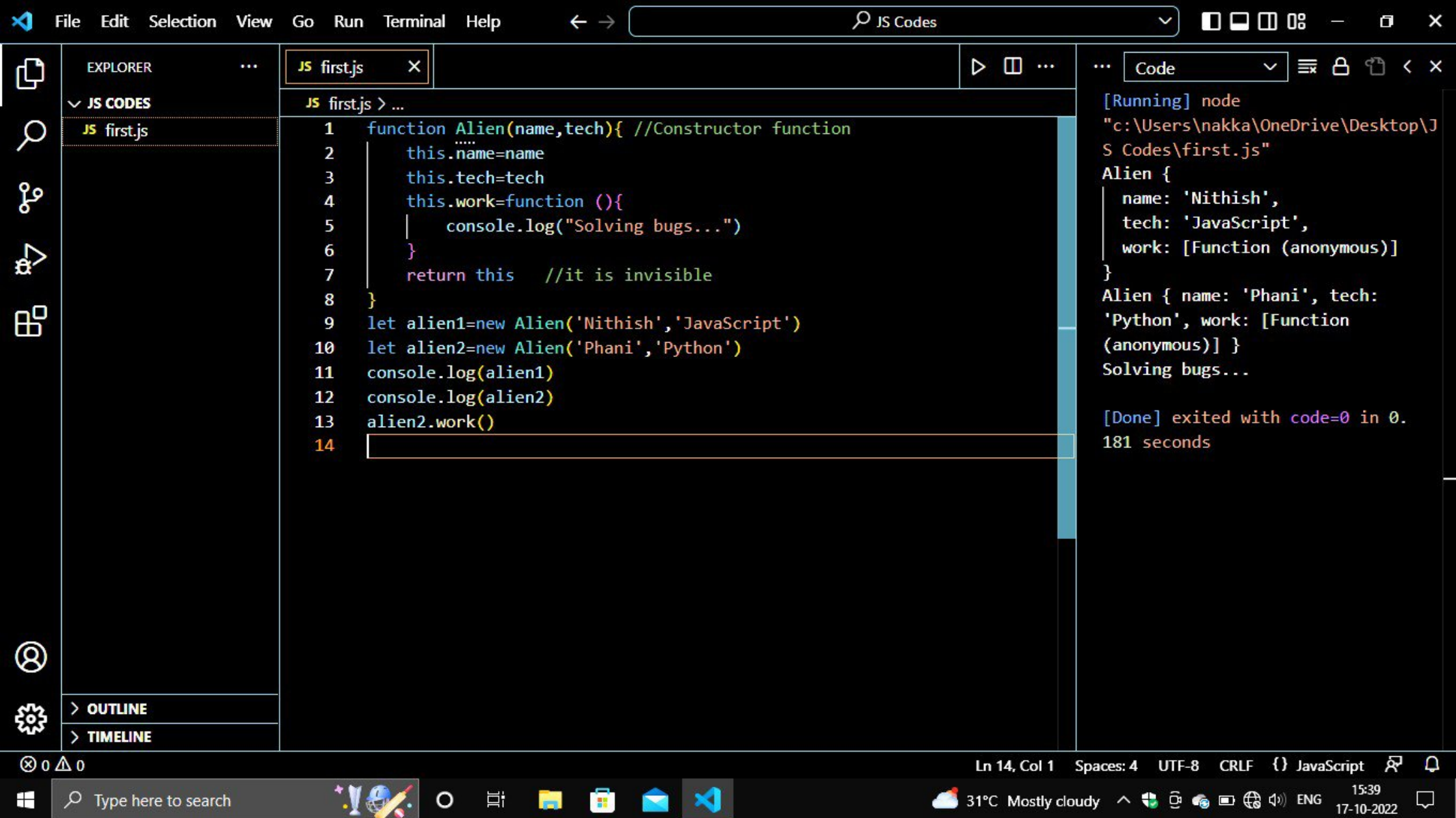
```
JS firstjs > ...
1  |  let stud1={
2  |      name:'Nithish',
3  |      age:20,
4  |      marks:89,
5  |      getDetails: function(){
6  |          console.log(this.name,this.age,this.marks)
7  |      },
8  |      compare: function(other){
9  |          if(this.marks>other.marks)
10 |              console.log(stud1)
11 |          else
12 |              console.log(other)
13 |      }
14 |  }
15 |
16 |  let stud2={
17 |      name:'Phaneendra',
18 |      age:21,
19 |      marks:90,
20 |      getDetails: function(){
21 |          console.log(this.name,this.age,this.marks)
22 |      }
23 |  }
24 |
25 |  stud1.getDetails()
26 |  stud2.getDetails()
27 |  getBestStudent(stud1,stud2) //Third party function comparing two objects
28 |  stud1.compare(stud2)       //Object comparing itself to another object with compare method
29 |
30 |
31 |
32 |
33 |
34 |
35 |
36 |
37 |
38 |
39 |
40 |
41 |
```

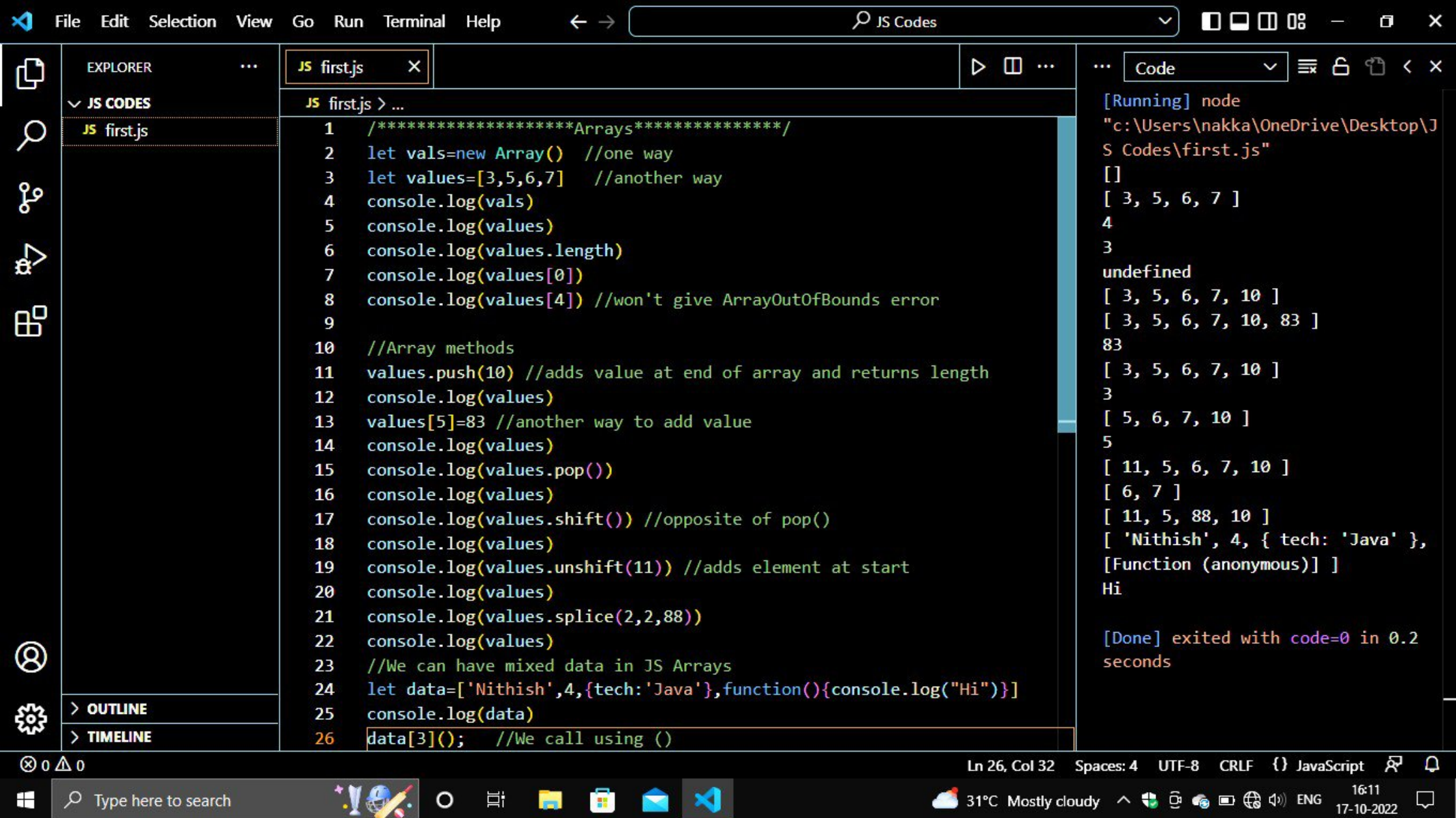
Code

```
[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
Nithish 20 89
Phaneendra 21 90
{
  name: 'Phaneendra',
  age: 21,
  marks: 90,
  getDetails: [Function:
getDetails]
}
{
  name: 'Phaneendra',
  age: 21,
  marks: 90,
  getDetails: [Function:
getDetails]
}

[Done] exited with code=0 in 0.19
seconds
```







1

EXPLORER

JS CODES

JS first.js

OUTLINE

TIMELINE

JS first.js

```

1 let nums=[]
2 nums[0]=5
3 nums[99]=17
4 console.log(nums)
5 let data=[65,4,45,74,56,4,5,46,54,98,46,58]
6 console.log("index",data.length)
7
8 for(let a in data){ //for in loop gives all keys
9 |   console.log(a)
10 }
11
12 for(let b of data){ //for of loop gives all values
13 |   console.log(b)
14 }
15

```

Code

```

[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
[ 5, <98 empty items>, 17 ]
index 12
0
1
2
3
4
5
6
7
8
9
10
11
65
4
45
74
56
4
5
46
54
98

```



1

JS first.js

JS CODES

JS first.js

OUTLINE

TIMELINE

JS first.js > ...

```
1 let nums=[]
2 nums[0]=5
3 nums[99]=17
4 console.log(nums)
5 let data=[65,4,45,74,56,4,5,46,54,98,46,58]
6 console.log("index",data.length)
7
8 for(let a in data){ //for in loop gives all keys
9 |   console.log(a)
10 }
11
12 for(let b of data){ //for of loop gives all values
13 |   console.log(b)
14 }
15 //In arrays we can only a in/of,can't [a,b] in/of
```

Code

```
[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
[ 5, <98 empty items>, 17 ]
index 12
0
1
2
3
4
5
6
7
8
9
10
11
65
4
45
74
56
4
5
46
54
98
```

Ln 15, Col 50 Spaces: 4 UTF-8 CRLF {} JavaScript

Type here to search

31°C Cloudy 11:53 18-10-2022



FileEditSelectionViewGoRunTerminalHelp

JS Codes

EXPLORER

JS CODES

JS first.js

OUTLINE

TIMELINE

JS first.js

```
1 console.log(nums)
2
3
4 let [a,b,c,d]=nums //Destructure an Array
5 console.log(d)
6 let [e,f,,h]=nums //We can skip assignment to a value
7 console.log(h)
8
9 let words="My name is Nakka Nithish"
10 console.log(words)
11 words=words.split(' ') //split function
12 console.log(words)
13
14 let [k,l,m,n,o]=words
15 console.log(n,o)
16 let [s,...t]=words //...t means rest of the elements
17 console.log(t)
18
```

Code

```
[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
[ 5, 46, 41, 26 ]
26
26
My name is Nakka Nithish
[ 'My', 'name', 'is', 'Nakka',
'Nithish' ]
Nakka Nithish
[ 'name', 'is', 'Nakka',
'Nithish' ]

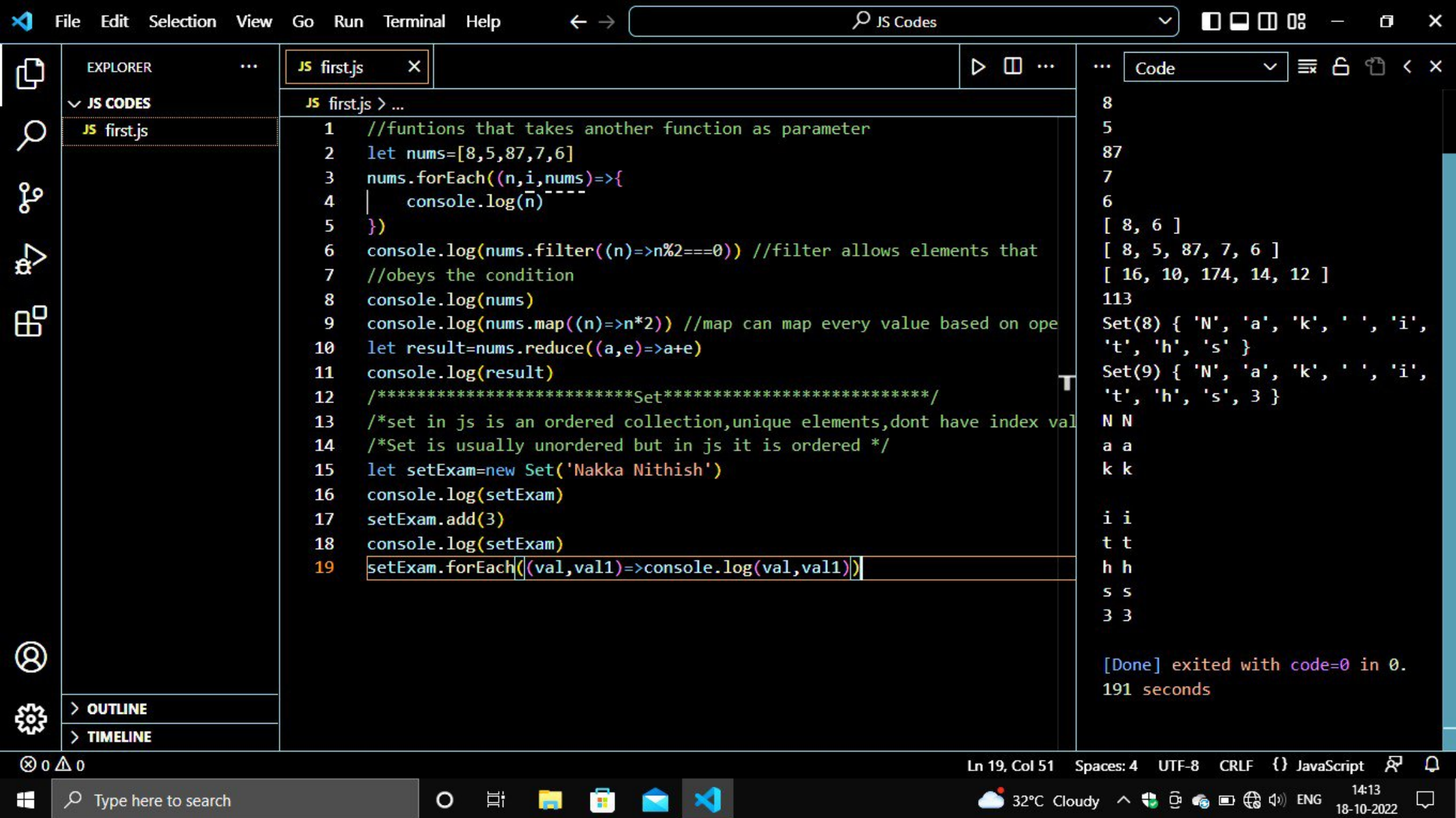
[Done] exited with code=0 in 0.
182 seconds
```

Ln 18, Col 1 Spaces: 4 UTF-8 CRLF {} JavaScript

Type here to search

32°C Cloudy

13:16 18-10-2022



1

JS first.js

JS CODES

JS first.js

> OUTLINE

> TIMELINE

JS first.js > ...

```
1 //Map is nothing but a dictionary like in Python
2 let mapEx=new Map();
3 mapEx.set('Nithish','JS');
4 mapEx.set('Phani','Python');
5 console.log(mapEx)
6 console.log(mapEx.keys()) //keys() gives all keys
7 console.log(mapEx.values())//values( gives all values)
8 console.log(mapEx.has('Phani'))
9 for(let i of mapEx) //gives all key,value pairs
10 | console.log(i)
11 for(let [k,v] of mapEx)
12 | console.log(k,v)
13 mapEx.forEach((k,v)=>console.log(v,k)) //check forEach param order
14 /*****Recursion*****/
15 function fact(num){
16 | if(num===0)
17 | | return 1
18 | else
19 | | return num*fact(num-1)
20 | }
21 console.log(fact(5))
22
```

Code

```
[Running] node
"c:\Users\nakka\OneDrive\Desktop\J
S Codes\first.js"
Map(2) { 'Nithish' => 'JS',
'Phani' => 'Python' }
[Map Iterator] { 'Nithish',
'Phani' }
[Map Iterator] { 'JS', 'Python' }
true
[ 'Nithish', 'JS' ]
[ 'Phani', 'Python' ]
Nithish JS
Phani Python
Nithish JS
Phani Python

[Done] exited with code=0 in 0.
175 seconds
```

Ln 22, Col 1 Spaces: 4 UTF-8 CRLF {} JavaScript

32°C Cloudy 14:36 18-10-2022



