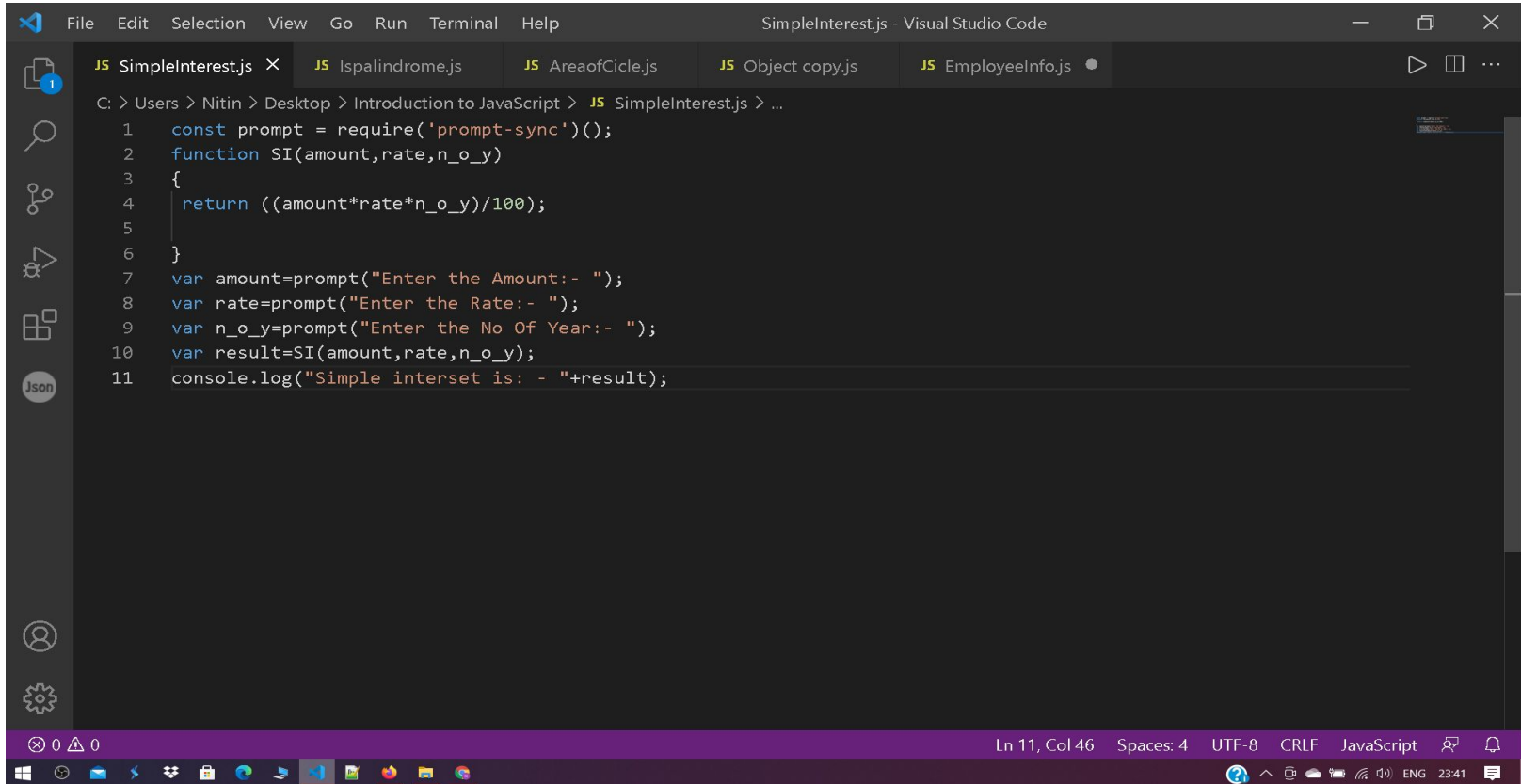




Introduction to Javascript

by Nitin kumar

1. Prompt for amount, interest rate and no. of years and calculate simple interest.



```
File Edit Selection View Go Run Terminal Help
SimpleInterest.js - Visual Studio Code

JS SimpleInterest.js X JS IsPalindrome.js JS AreaOfCircle.js JS ObjectCopy.js JS EmployeeInfo.js
C: > Users > Nitin > Desktop > Introduction to JavaScript > JS SimpleInterest.js > ...
1  const prompt = require('prompt-sync')();
2  function SI(amount,rate,n_o_y)
3  {
4      return ((amount*rate*n_o_y)/100);
5  }
6  }
7  var amount=prompt("Enter the Amount:- ");
8  var rate=prompt("Enter the Rate:- ");
9  var n_o_y=prompt("Enter the No Of Year:- ");
10 var result=SI(amount,rate,n_o_y);
11 console.log("Simple interest is: - "+result);
```

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Output

```
PS C:\Users\Nitin> node "c:\Users\Nitin\Desktop\Introduction to JavaScript\SimpleInterest.js"
Enter the Amount:- 2000
Enter the Rate:- 2
Enter the No Of Year:- 4
Simple interest is: - 160
PS C:\Users\Nitin> 
```

2.is palindrome string

```

C: > Users > Nitin > Desktop > Introduction to JavaScript > JS Ispalindrome.js > ispalindrome
1  const prompt = require('prompt-sync')();
2  function ispalindrome(str)
3  {
4      var newstr="";
5      for(var i=str.length-1;i>=0;i--)
6          newstr+=str[i];
7      for(var i=0;i<str.length;i++)
8      {
9          if(str[i]!==newstr[i])
10             return false;
11      }
12      return true;
13  }
14
15
16  var str=prompt("Enter A String :- ");
17  var result=ispalindrome(str);
18  console.log(result);
  
```

Ln 13, Col 17 Spaces: 4 UTF-8 CRLF JavaScript

Output

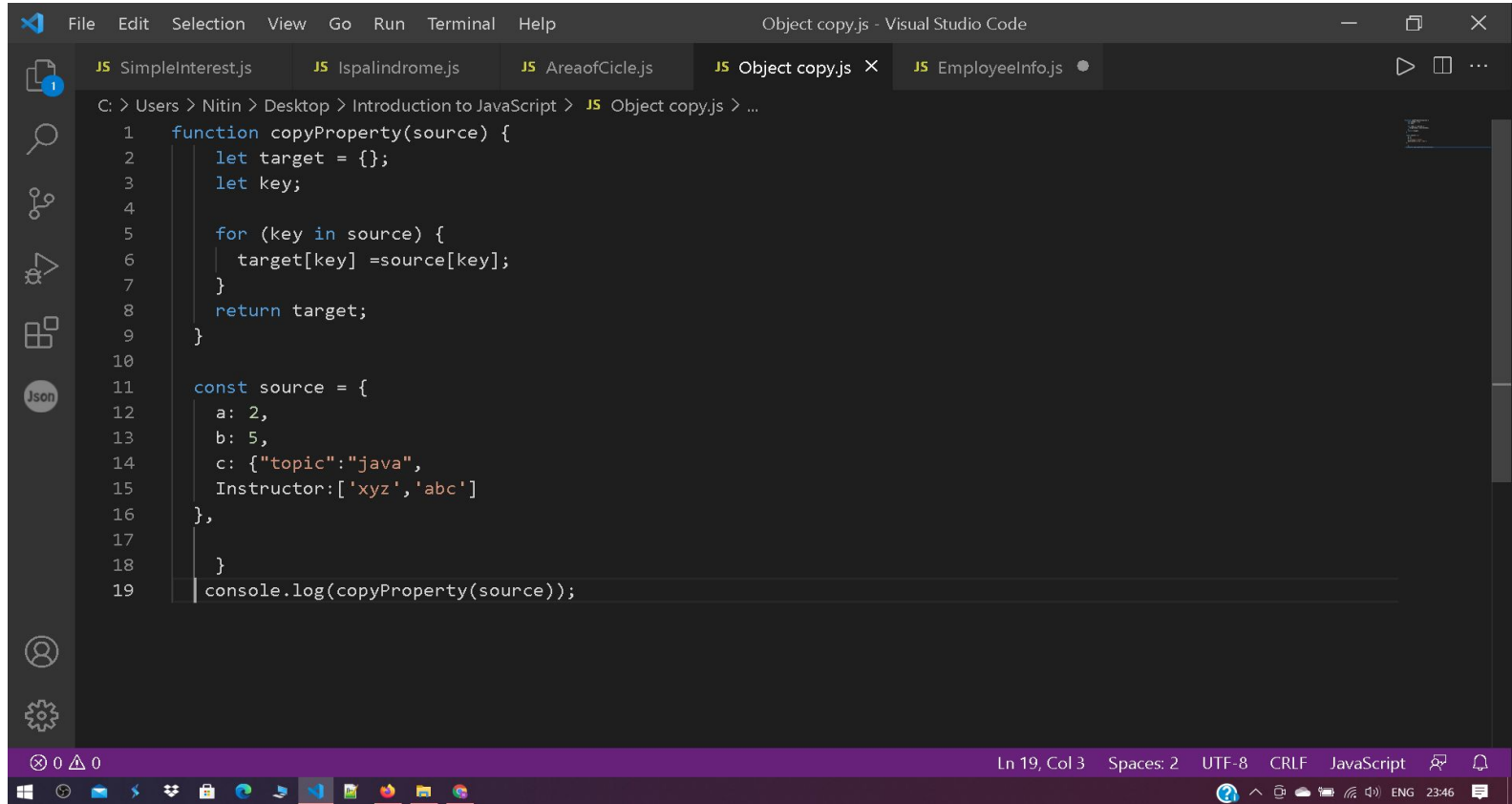
```
PS C:\Users\Nitin> node "c:\Users\Nitin\Desktop\Introduction to JavaScript\Ispalindrome.js"
Enter A String :- nitin
true
PS C:\Users\Nitin> node "c:\Users\Nitin\Desktop\Introduction to JavaScript\Ispalindrome.js"
Enter A String :- amit
false
PS C:\Users\Nitin> 
```



Output

```
PS C:\Users\Nitin> node "c:\Users\Nitin\Desktop\Introduction to JavaScript\AreaofCicle.js"  
Enter the Radius: - 5  
78.53981633974483
```

4.Copy information of one object to another and log it to console.



```
File Edit Selection View Go Run Terminal Help
Object copy.js - Visual Studio Code

JS SimpleInterest.js JS lspalindrome.js JS AreaofCicle.js JS Object copy.js X JS EmployeeInfo.js

C: > Users > Nitin > Desktop > Introduction to JavaScript > JS Object copy.js > ...

1 function copyProperty(source) {
2     let target = {};
3     let key;
4
5     for (key in source) {
6         target[key] =source[key];
7     }
8     return target;
9 }
10
11 const source = {
12     a: 2,
13     b: 5,
14     c: {"topic":"java",
15     Instructor:['xyz','abc']}
16 },
17
18 }
19 console.log(copyProperty(source));
```

Ln 19, Col 3 Spaces: 2 UTF-8 CRLF JavaScript

Output

```
PS C:\Users\Nitin> node "c:\Users\Nitin\Desktop\Introduction to JavaScript\Object copy.js"  
{ a: 2, b: 5, c: { topic: 'java', Instructor: [ 'xyz', 'abc' ] } }  
PS C:\Users\Nitin> 
```

5.create a list of objects of Employee with info as follow :

- Name, age, salary ,DOB
- filter all employees with salary greater than 5000
- group employee on the basis of their age
- fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

EmployeeInfo.js - Visual Studio Code

JS SimpleInterest.js JS IsPalindrome.js JS AreaofCircle.js JS Object copy.js JS EmployeeInfo.js X

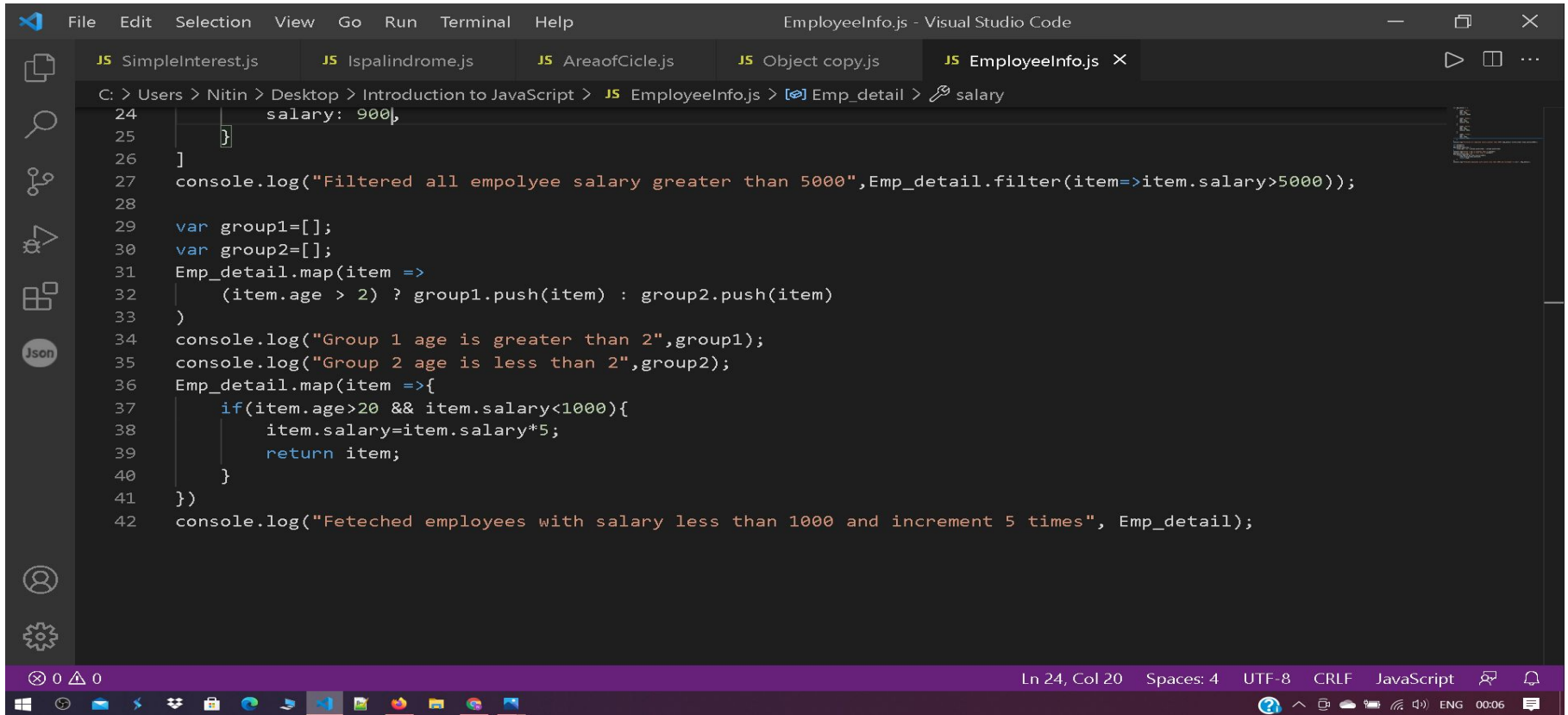
C: > Users > Nitin > Desktop > Introduction to JavaScript > JS EmployeeInfo.js > Emp_detail > salary

```

1  var Emp_detail = [
2      {
3          name: 'amit',
4          age: 30,
5          dob: 1990,
6          salary: 10000
7      },
8      {
9          name: 'Rahul',
10         age: 34,
11         dob: 1988,
12         salary: 120,
13     },
14     {
15         name: 'Parth',
16         age: 30,
17         dob: 1992,
18         salary: 3000,
19     },
20     {
21         name: 'rishi',
22         age: 4,
23         dob: 1993,
24         salary: 900,
25     }
26 ]

```

Ln 24, Col 20 Spaces: 4 UTF-8 CRLF JavaScript ENG 00:06



Visual Studio Code editor window titled "EmployeeInfo.js - Visual Studio Code". The editor shows the following JavaScript code:

```

C: > Users > Nitin > Desktop > Introduction to JavaScript > JS EmployeeInfo.js > Emp_detail > salary
24     salary: 900,
25 }
26 ]
27 console.log("Filtered all empolyee salary greater than 5000",Emp_detail.filter(item=>item.salary>5000));
28
29 var group1=[];
30 var group2=[];
31 Emp_detail.map(item =>
32     (item.age > 2) ? group1.push(item) : group2.push(item)
33 )
34 console.log("Group 1 age is greater than 2",group1);
35 console.log("Group 2 age is less than 2",group2);
36 Emp_detail.map(item =>{
37     if(item.age>20 && item.salary<1000){
38         item.salary=item.salary*5;
39         return item;
40     }
41 })
42 console.log("Feteched employees with salary less than 1000 and increment 5 times", Emp_detail);
  
```

The status bar at the bottom indicates: Ln 24, Col 20 | Spaces: 4 | UTF-8 | CRLF | JavaScript | ENG | 00:06

Output

```
PS C:\Users\Nitin> node "c:\Users\Nitin\Desktop\Introduction to JavaScript\EmployeeInfo.js"
Filtered all empolyee salary greater than 5000 [
  { name: 'amit', age: 30, dob: 1990, salary: 10000 },
  { name: 'rishi', age: 4, dob: 1993, salary: 9000 }
]
Group 1 age is greater than 2 [
  { name: 'amit', age: 30, dob: 1990, salary: 10000 },
  { name: 'Rahul', age: 34, dob: 1988, salary: 1200 },
  { name: 'Parth', age: 30, dob: 1992, salary: 3000 },
  { name: 'rishi', age: 4, dob: 1993, salary: 9000 }
]
Group 2 age is less than 2 []
Feteched employees with salary less than 1000 and increment 5 times [
  { name: 'amit', age: 30, dob: 1990, salary: 10000 },
  { name: 'Rahul', age: 34, dob: 1988, salary: 1200 },
  { name: 'Parth', age: 30, dob: 1992, salary: 3000 },
  { name: 'rishi', age: 4, dob: 1993, salary: 9000 }
]
```