OBSERVATION REPORT

JavaScript Hands On 1

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Batch WD37

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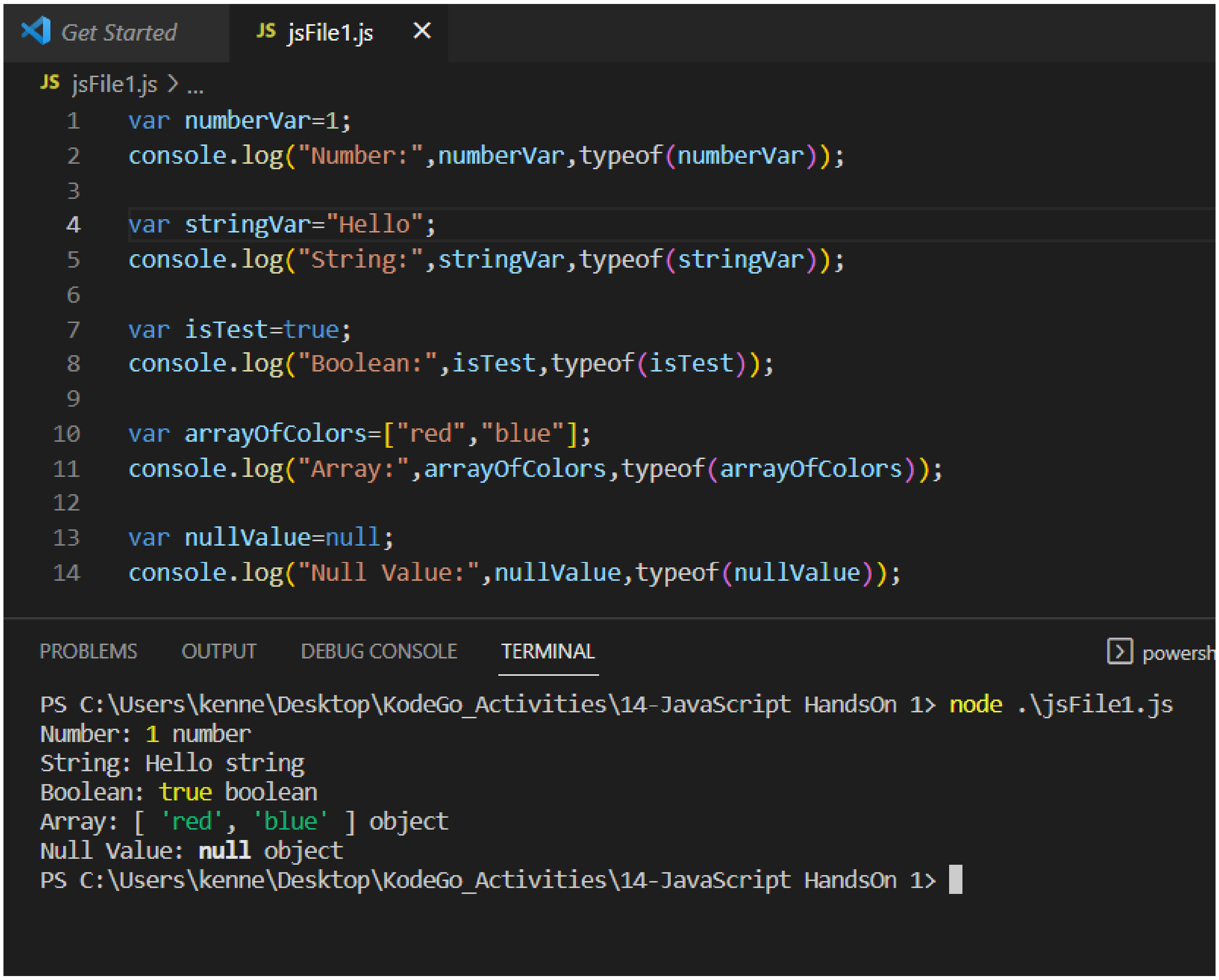
1. Create a Js file that will show different Data Types(Number, String, Object). Used typeof keyword to show the data types.

example:

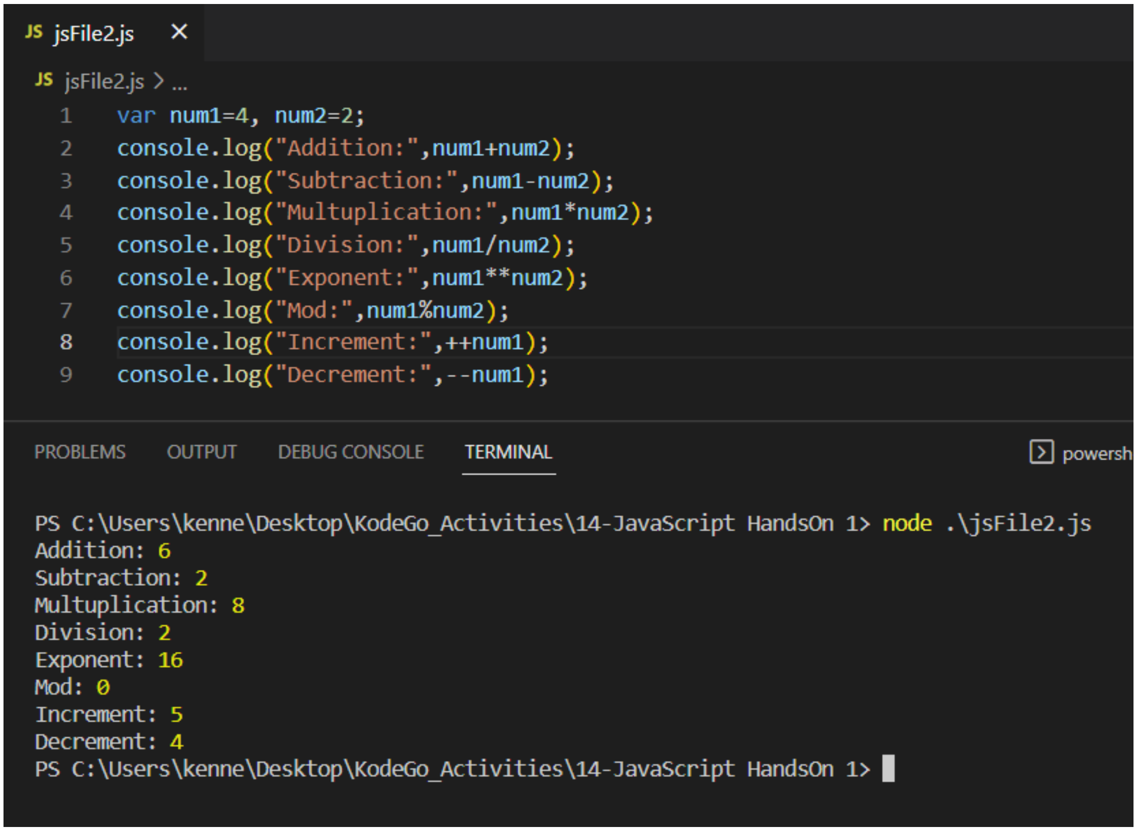
console.log("Number: ", numberVar, typeof numberVar);
console.log("String: ", stringVar, typeof stringVar);
console.log("Bolean: ", isTest , typeof isTest);
console.log("Array: ", arrayOfColors , typeof arrayOfColor);
console.log("Null Value: ", nullValue , typeof nullValue);



```
var numberVar=1;
console.log("Number:",numberVar,typeof(numberVar));

var stringVar="Hello";
console.log("String:",stringVar,typeof(stringVar));

var isTest=true;
console.log("Boolean:",isTest,typeof(isTest));

var arrayOfColors=["red","blue"];
console.log("Array:",arrayOfColors,typeof(arrayOfColors));

var nullValue=null;
console.log("Null Value:",nullValue,typeof(nullValue));
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node .\jsFile1.js
Number: 1 number
String: Hello string
Boolean: true boolean
Array: [ 'red', 'blue' ] object
Null Value: null object
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1>
```

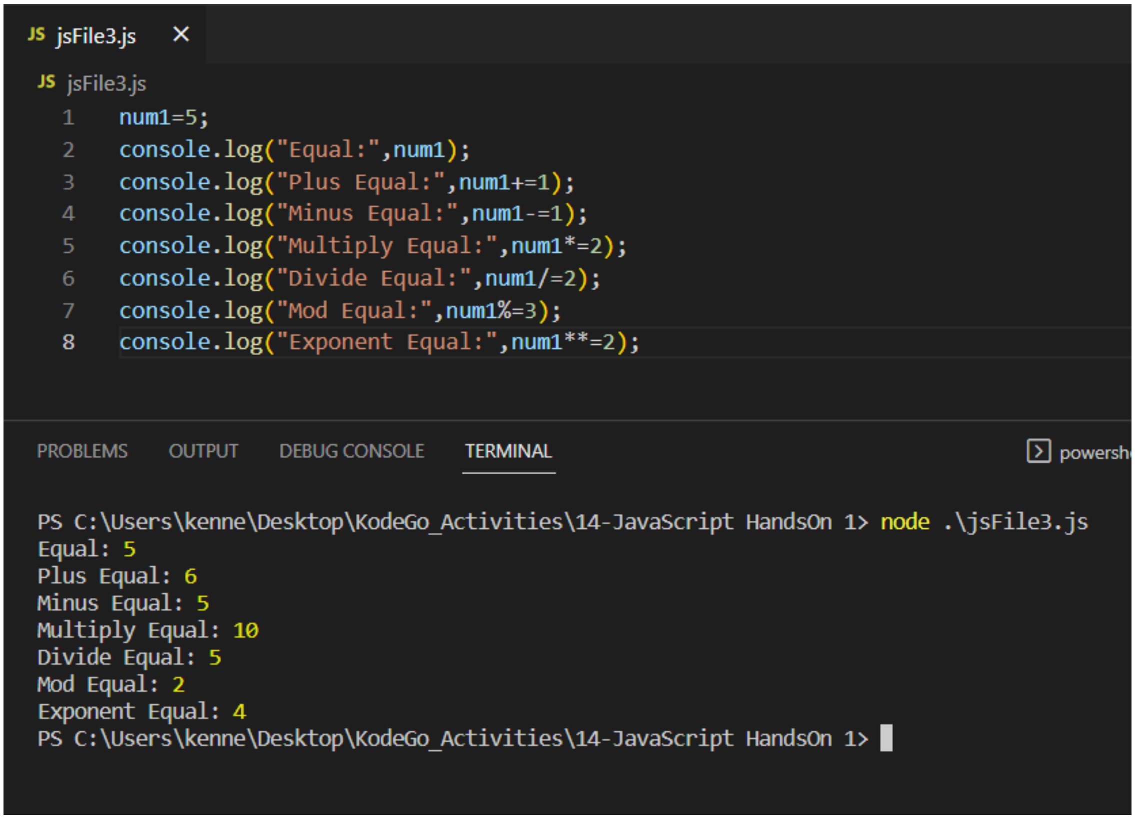
2. Create Js file to show different Mathematical Operations(+, - , *, /, **, %, ++, --).



```
var num1=4, num2=2;
console.log("Addition:",num1+num2);
console.log("Subtraction:",num1-num2);
console.log("Multuplication:",num1*num2);
console.log("Division:",num1/num2);
console.log("Exponent:",num1**num2);
console.log("Mod:",num1%num2);
console.log("Increment:",++num1);
console.log("Decrement:",--num1);
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node .\jsFile2.js
Addition: 6
Subtraction: 2
Multuplication: 8
Division: 2
Exponent: 16
Mod: 0
Increment: 5
Decrement: 4
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> 
```

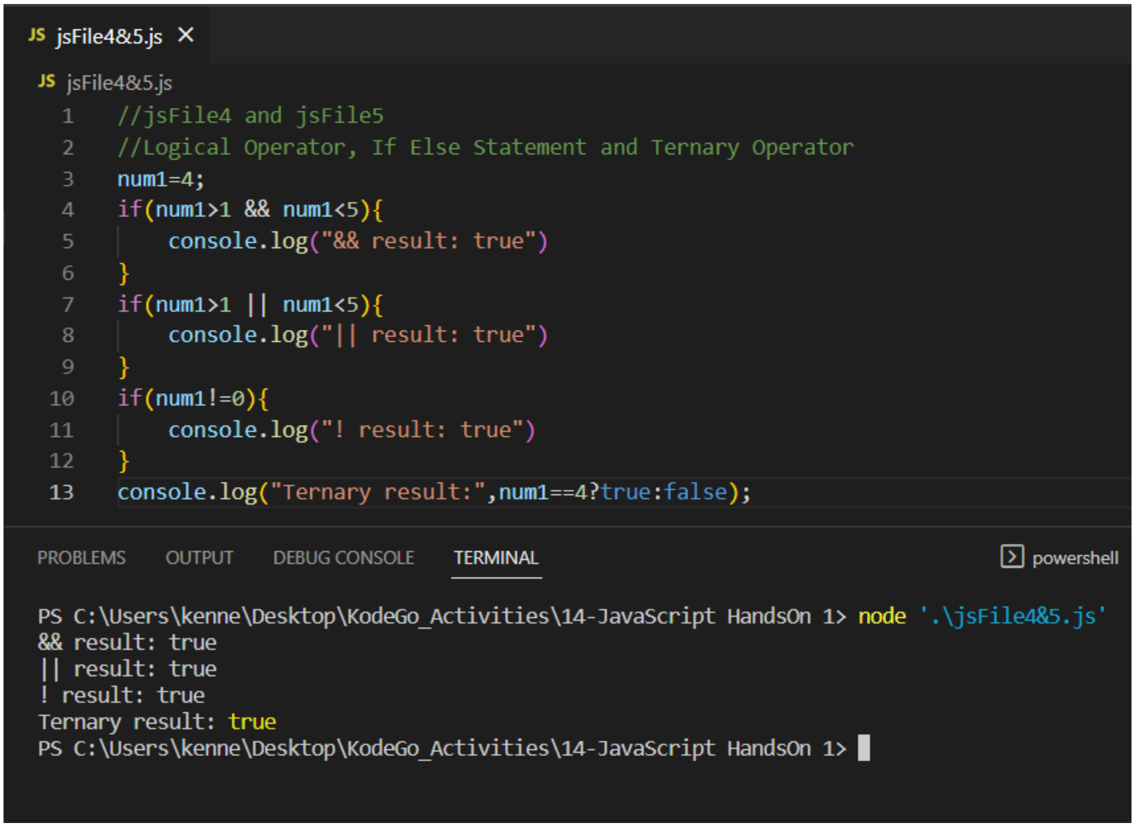
3. Create Js File to show different Assignment Operators (=, +=, -=, *=, /=, %=, **=).



```
num1=5;
console.log("Equal:",num1);
console.log("Plus Equal:",num1+=1);
console.log("Minus Equal:",num1-=1);
console.log("Multiply Equal:",num1*=2);
console.log("Divide Equal:",num1/=2);
console.log("Mod Equal:",num1%=3);
console.log("Exponent Equal:",num1**=2);
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node .\jsFile3.js
Equal: 5
Plus Equal: 6
Minus Equal: 5
Multiply Equal: 10
Divide Equal: 5
Mod Equal: 2
Exponent Equal: 4
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> 
```

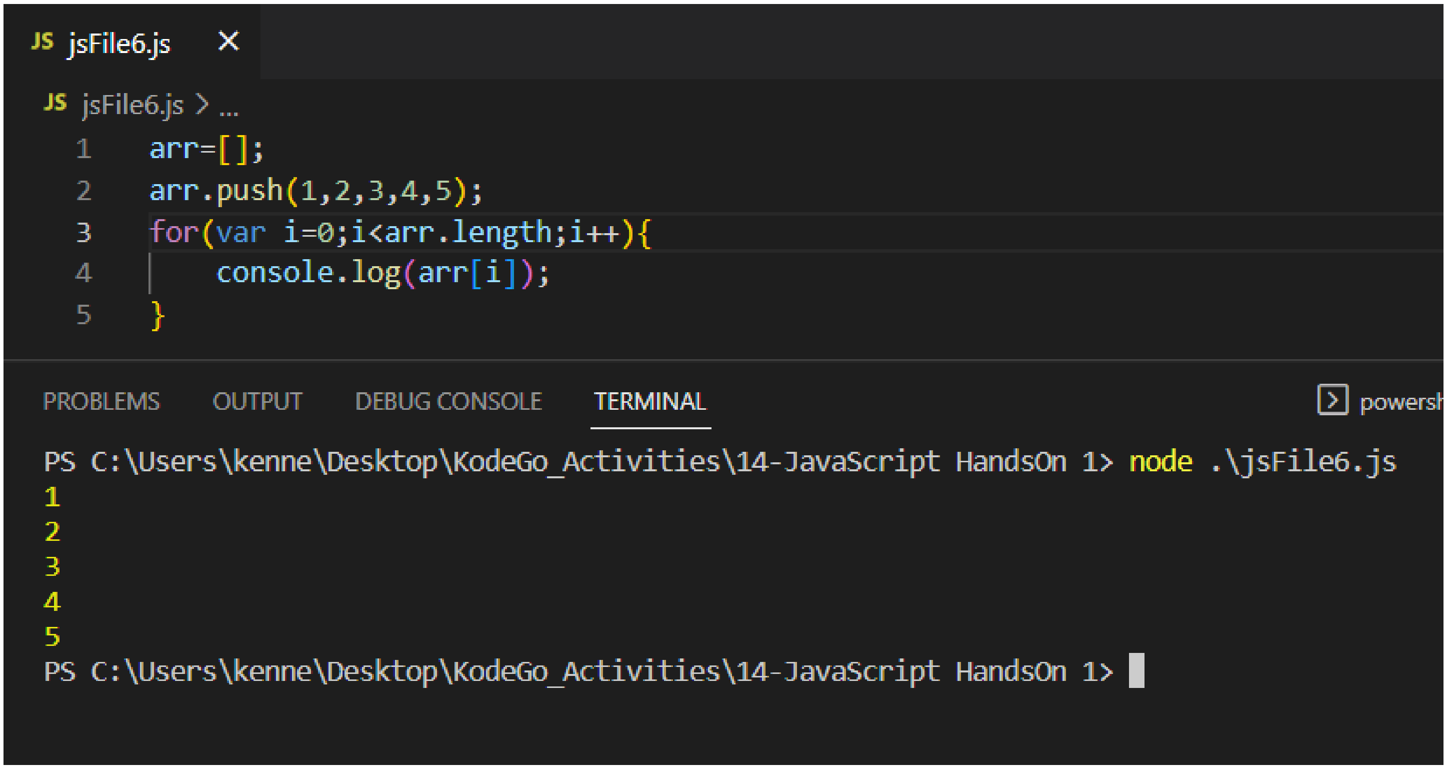
4&5. Create Js file to show different Logical Operators (&& , || , !) using if-else statement and convert this to ternary operator.



```
//jsFile4 and jsFile5
//Logical Operator, If Else Statement and Ternary Operator
num1=4;
if(num1>1 && num1<5){
    console.log("&& result: true")
}
if(num1>1 || num1<5){
    console.log("|| result: true")
}
if(num1!=0){
    console.log("! result: true")
}
console.log("Ternary result:",num1==4?true:false);
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node '.\jsFile4&5.js'
&& result: true
|| result: true
! result: true
Ternary result: true
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1>
```

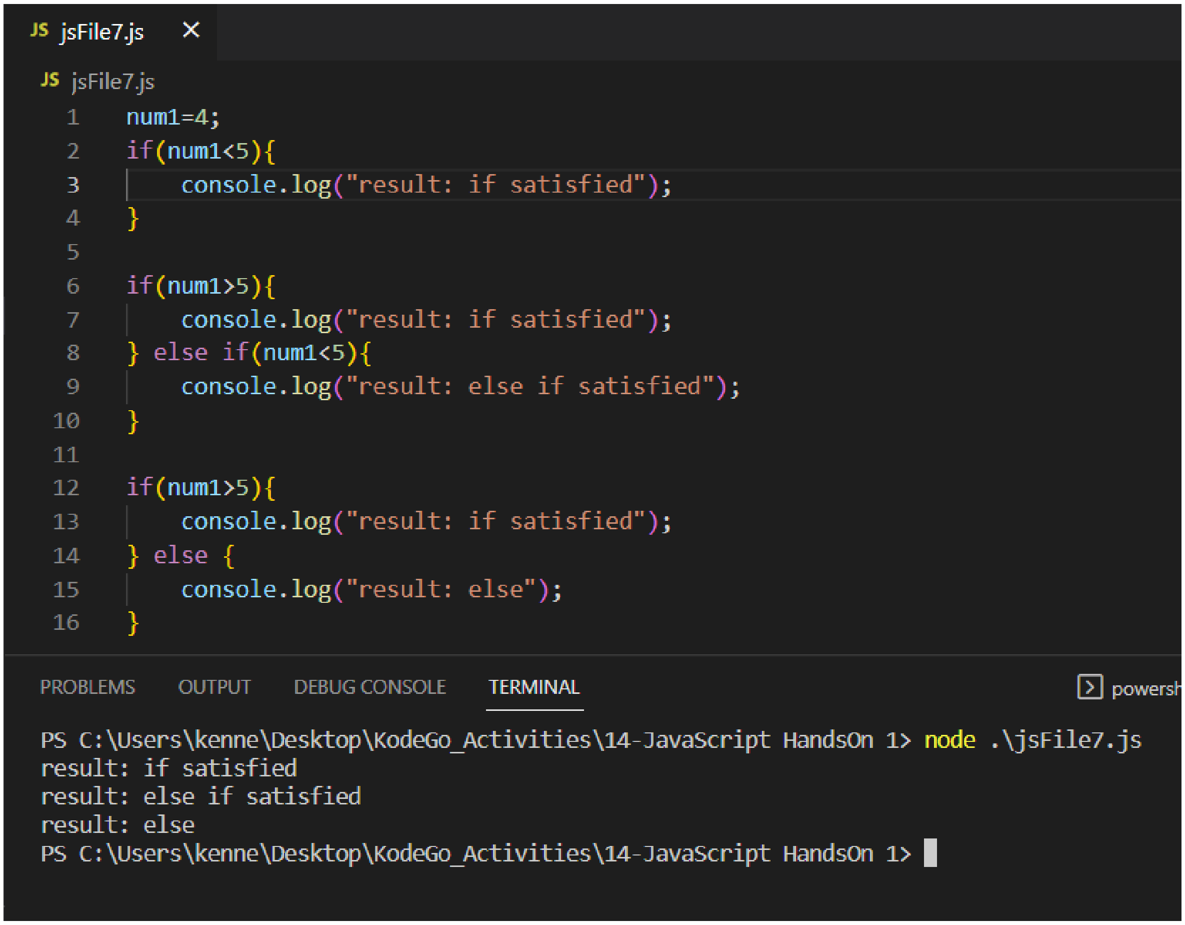
6. Create Js file that has a blank array, then push or assign 5 elements inside the array, after you add items in the array loop and show all the elements of the array.



```
arr=[];
arr.push(1,2,3,4,5);
for(var i=0;i<arr.length;i++){
    console.log(arr[i]);
}
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node .\jsFile6.js
1
2
3
4
5
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1>
```

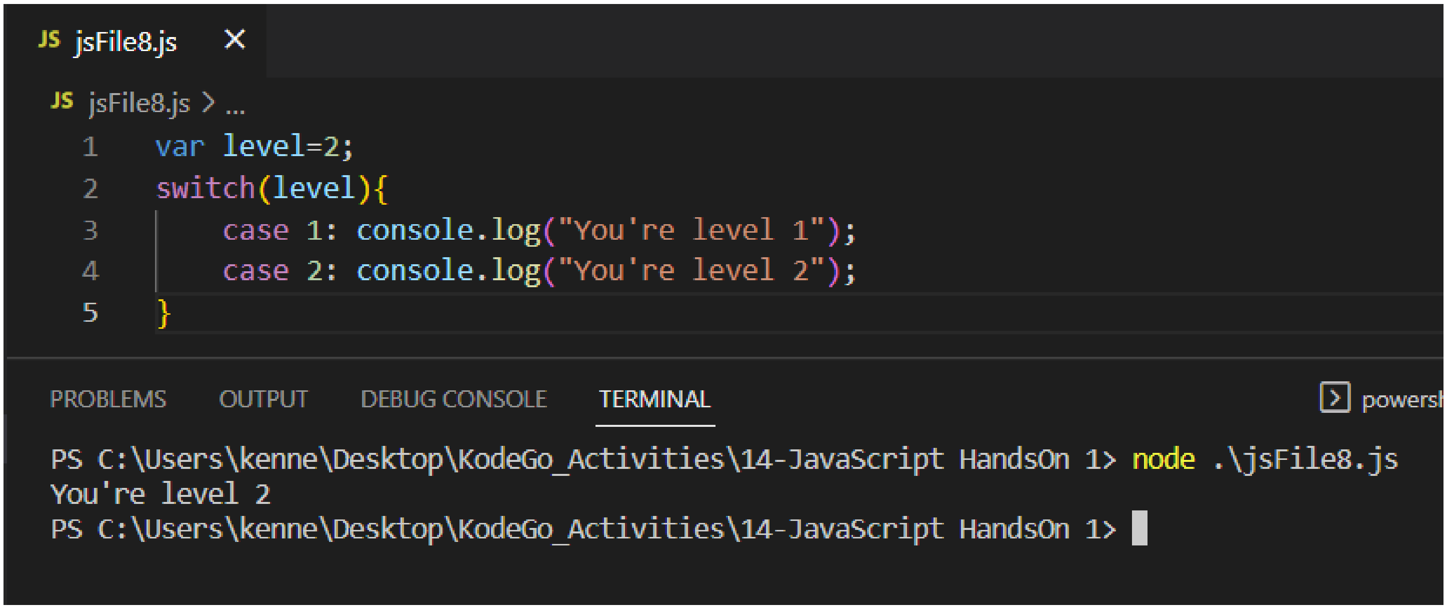
7. Create Js file to program if, else if , else statement.



```
num1=4;
if(num1<5){
    console.log("result: if satisfied");
}

if(num1>5){
    console.log("result: if satisfied");
} else if(num1<5){
    console.log("result: else if satisfied");
}

if(num1>5){
    console.log("result: if satisfied");
} else {
    console.log("result: else");
}
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node .\jsFile7.js
result: if satisfied
result: else if satisfied
result: else
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1>
```

8. Create Js file to program switch case statement.



```
var level=2;
switch(level){
    case 1: console.log("You're level 1");
    case 2: console.log("You're level 2");
}
```

```
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1> node .\jsFile8.js
You're level 2
PS C:\Users\kenne\Desktop\KodeGo_Activities\14-JavaScript HandsOn 1>
```