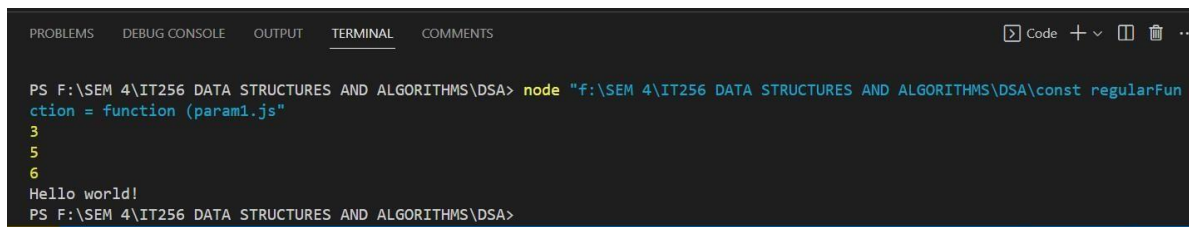


PRACTICAL-7**Demonstrate ES6 New Syntax and Test Browser Compatibility.**

1) Arrow Function

Source code :

```
const regularFunction = function (param1, param2) {  
    return param1 + param2;  
};  
  
const arrowFunction = (param1, param2) => param1 + param2;  
  
const arrowFunctionMultiParams = (param1, param2, param3) => {  
    return param1 + param2 + param3;  
};  
  
const noParameters = () => "Hello world!";  
  
console.log(regularFunction(1,2));  
console.log(arrowFunction(2,3));  
console.log(arrowFunctionMultiParams(1,2,3));  
console.log(noParameters());
```



```
PROBLEMS  DEBUG CONSOLE  OUTPUT  TERMINAL  COMMENTS  
PS F:\SEM 4\IT256 DATA STRUCTURES AND ALGORITHMS\DSA> node "f:\SEM 4\IT256 DATA STRUCTURES AND ALGORITHMS\DSA\const regularFunction = function (param1.js"  
3  
5  
6  
Hello world!  
PS F:\SEM 4\IT256 DATA STRUCTURES AND ALGORITHMS\DSA>
```

2) Destructuring

Source code :

```
let myNumbers = [1, 2, 3, 4];
let [firstNum, secondNum, thirdNum, fourthNum] = myNumbers;

console.log(firstNum);
console.log(secondNum);
console.log(thirdNum);
console.log(fourthNum);

let myObject = {
  name: 'John',
  age: 25,
  job: 'Software Engineer'
};

let {name, age, job} = myObject;

console.log(myObject.name);
console.log(age);
console.log(job); // Software Engineer
```



The screenshot shows a code editor with a terminal window. The terminal has tabs for PROBLEMS, DEBUG CONSOLE, OUTPUT, TERMINAL, and COMMENTS. The TERMINAL tab is active, showing the output of the code: 2, 3, 4, John, 25, Software Engineer. The prompt is PS F:\SEM 4\IT256 DATA STRUCTURES AND ALGORITHMS\DSA>

```
PROBLEMS  DEBUG CONSOLE  OUTPUT  TERMINAL  COMMENTS

2
3
4
John
25
Software Engineer
PS F:\SEM 4\IT256 DATA STRUCTURES AND ALGORITHMS\DSA>
```

3) Spread vs Rest Operator

Source code :

```
const numbers = [1,2,3,4,5];

function add(a, b, c, d, e) {
  return a + b + c + d + e;
}

const sum = add(...numbers);
console.log(sum);

const numbers2 = [6,7,8,9,10];

const combinedNumbers = [...numbers, ...numbers2];
console.log(combinedNumbers);
```



```
PROBLEMS  DEBUG CONSOLE  OUTPUT  TERMINAL  COMMENTS

le.js"
15
[
  1, 2, 3, 4, 5,
  6, 7, 8, 9, 10
]
PS F:\SEM 4\IT256 DATA STRUCTURES AND ALGORITHMS\DSA>
```