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advanced-javascript

EXPLORER

ADVANCED-JAVASCRIPT

Solution-1.js

Solution-1.js

```
1 // Defining the constructor function Person with initializing property name and age.
2 function Person(name, age) {
3     this.name = name;
4     this.age = age;
5 }
6
7 // Adding method to greet the Person.
8 Person.prototype.sayHello = function () {
9     console.log("Hello Mr. " + this.name);
10 }
11
12 // Using it to declare a new Person.
13 const newPerson = new Person("Ram", 22);
14
15 // Calling the sayHello function.
16 newPerson.sayHello();
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

POSTMAN CONSOLE

powershell

PS D:\pw-revision\advanced-javascript> node .\Solution-1.js
Hello Mr. Ram
PS D:\pw-revision\advanced-javascript>

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advanced-javascript

EXPLORER

ADVANCED-JAVASCRIPT

Solution-1.js

Solution-2.js

Solution-2.js

```
1 // Defining the constructor function Person with initializing property name and age.
2 function Person(name, age) {
3     this.name = name;
4     this.age = age;
5 }
6
7 // Adding method to greet the Person.
8 Person.prototype.sayHello = function () {
9     console.log("Hello Mr. " + this.name);
10 }
11
12 // Defining an Employee constructor that inherits from Person and also definind designation property.
13 function Employee (name, age, designation) {
14     Person.call(this, name, age);
15     this.designation = designation;
16 }
17
18 // Inheriting the property from Person
19 Employee.prototype = Object.create(Person.prototype);
20
21 // Defining the getDetails function.
22 Employee.prototype.getDetails = function() {
23     console.log("The Employee named", this.name,"whose age is",this.age,"has the designation of", this.designation);
24 };
25
26 // Use to create new Employee.
27 const newEmployee = new Employee('Hitesh Choudhary', 28, 'Software Engineer');
28 newEmployee.getDetails();
29
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

POSTMAN CONSOLE

powershell

PS D:\pw-revision\advanced-javascript> node .\Solution-2.js
The Employee named Hitesh Choudhary whose age is 28 has the designation of Software Engineer
PS D:\pw-revision\advanced-javascript>

OUTLINE

TIMELINE

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advanced-javascript

EXPLORER

ADVANCED-JAVASCRIPT

outputs

Solution-1.js

Solution-2.js

Solution-3.js

Solution-4.js

Solution-5.js

Solution-3.js

Solution-3.js > Calculator

```
1 // Created a Calculator object with methods for calculating operations
2 const Calculator = {
3   ans: 0,
4   // Method for addition
5   add(num) {
6     this.ans += num;
7     return this;
8   },
9   // Method for subtraction
10  subtract(num) {
11    this.ans -= num;
12    return this;
13  },
14  // Method for multiplication
15  multiply(num) {
16    this.ans *= num;
17    return this;
18  },
19  // Method for division
20  divide(num) {
21    this.ans /= num;
22    return this;
23  },
24  // Method to get the result
25  getResult() {
26    return this.ans;
27  }
28 };
29
30 // Example usage:
31 const result = Calculator.add(15).subtract(5).multiply(6).divide(2).getResult();
32 console.log("The Result is :",result);
33
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

POSTMAN CONSOLE

PS D:\pw-revision\advanced-javascript> node .\Solution-3.js

The Result is : 30

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JavaScript

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advanced-javascript

EXPLORER

ADVANCED-JAVASCRIPT

Solution-1.js

Solution-2.js

Solution-3.js

Solution-4.js

Solution-4.js

```
1 // Define a base class Shape with a draw method
2 class Shape {
3     draw() {
4         console.log('Draw is called from Shape Class.');
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

POSTMAN CONSOLE

powershell

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PS D:\pw-revision\advanced-javascript> node .\Solution-4.js
Draw is Called from Circle Class.
Draw is Called from Rectangle Class.
PS D:\pw-revision\advanced-javascript>

OUTLINE

TIMELINE

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