

#### TASK 6:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
<script>
const sum = (...args) => {
  return args.reduce((total, num) => total + num, 0);
};
console.log(sum(1, 4, 3, 6, 5));
</script>
</body>
</html>
```

OUTPUT:

PROBLEMS    DEBUG CONS  
19

#### TASK 7:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
<script>
  const sum = (...args) => {
    return args.reduce((total, num) => total + num, 0);
  };
  const sumFromArray = (numbers) => {
    return sum(...numbers);
  };
  console.log(sumFromArray([9, 82, 3, 4, 5]));
</script>
</body>
</html>
```

OUTPUT:

## TASK 8:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
<script>
  const deepClone = (obj) => {
    return JSON.parse(JSON.stringify(obj));
  };
  const originalObj = { a: 1, b: { c: 2, d: 3 } };
  const clonedObj = deepClone(originalObj);
  console.log(clonedObj);
  console.log(clonedObj !== originalObj);
  console.log(clonedObj.b !== originalObj.b);
</script>
</body>
</html>
```

## OUTPUT:

```
PROBLEMS DEBUG TESTS
v {a: 1, b: {...}}
  a = 1
  > b = {c: 2, d: 3}
  > [[Prototype]] = Object
  true
  true
```

## TASK 9:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
```

```

<body>
<script>
  const merge= (obj1, obj2) => {
    return { ...obj1, ...obj2 };
  };
  const obj1 = { a: 11, b: 22 };
  const obj2 = { b: 33, c: 44 };
  console.log(merge(obj1, obj2));
</script>
</body>
</html>

```

OUTPUT:

PROBLEMS	DEBUG CONSOLE	TERMINAL	C
	> {a: 11, b: 33, c: 44}		

TASK 10:

```

<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Document</title>
</head>
<body>
<script>
  const serialize = (obj) => {
    const jsonString = JSON.stringify(obj);
    console.log(jsonString);
    return JSON.parse(jsonString);
  };
  const originalObj = { name: "vaithu", age: 18 };
  const newObj = serialize(originalObj);
  console.log(newObj);
</script>
</body>
</html>

```

OUTPUT:

PROBLEMS	DEBUG CONSOLE	TERMINAL
	{"name":"vaithu","age":18}	
	> {name: 'vaithu', age: 18}	