WAF -2 ASSIGNMENT

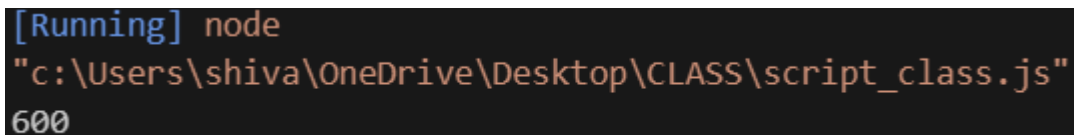**SHIVAM KUMAR BAHGAT**

PES1PG23CA130

1.

```
function calculateTotal(cart) {
  return cart.reduce((total, item) => total + item.price, 0);
}


const cart = [{ price: 100 }, { price: 200 }, { price: 300 }];
console.log(calculateTotal(cart));
```
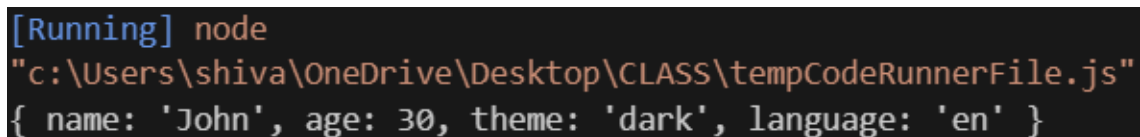
```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\script_class.js"
600
```

2.

```
function mergeUserInfo(userInfo, preferences) {
  return { ...userInfo, ...preferences };
}


const userInfo = { name: "John", age: 30 };
const preferences = { theme: "dark", language: "en" };
console.log(mergeUserInfo(userInfo, preferences));
```
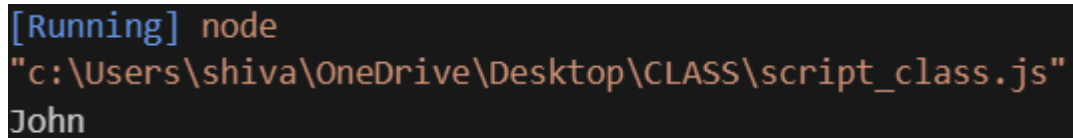
```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
{ name: 'John', age: 30, theme: 'dark', language: 'en' }
```
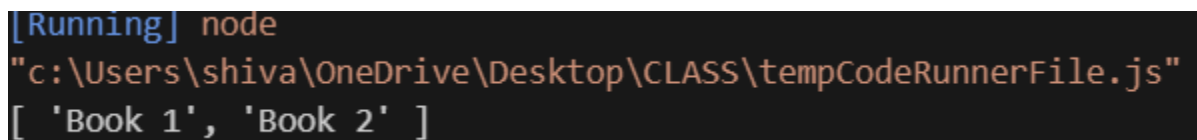
3.

```javascript
function getFirstName(fullName) {
  return fullName.split(" ")[0];
}

const fullName = "John Doe";
console.log(getFirstName(fullName));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\script_class.js"
John
```

4.

```javascript
function extractTitles(books) {
  return books.map(book => book.title);
}

const books = [{ title: "Book 1" }, { title: "Book 2" }];
console.log(extractTitles(books));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
[ 'Book 1', 'Book 2' ]
```

5.

```javascript
function simulateDelay(ms) {
  return new Promise(resolve => setTimeout(resolve, ms));
}

simulateDelay(2000).then(() => console.log("Delayed for 2 seconds"));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\script_class.js"
Delayed for 2 seconds
```

6.

```javascript
function convertValuesToUpperCase(obj) {
```

```
for (let key in obj) {

  if (typeof obj[key] === 'string') {

    obj[key] = obj[key].toUpperCase();

  }

}

return obj;

}


const obj = { name: "john", city: "new york" };

console.log(convertValuesToUpperCase(obj));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
{ name: 'JOHN', city: 'NEW YORK' }
```

7.

```
function wordLengths(words) {
  return words.map(word => word.length);
}

const words = ["apple", "banana", "cherry"];
console.log(wordLengths(words));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
[ 5, 6, 6 ]
```

8.

```
function findCommonInterests(user1, user2) {
  return user1.filter(interest => user2.includes(interest));
}

const user1Interests = ["coding", "music", "gaming"];
const user2Interests = ["sports", "music", "coding"];
```

```
console.log(findCommonInterests(user1Interests, user2Interests));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
[ 'coding', 'music' ]
```

9.

```
function removeFieldFromFormData(formData, field) {
  const { [field]: _, ...rest } = formData;
  return rest;
}

const formData = { name: "John", age: 30, email: "john@example.com" };
console.log(removeFieldFromFormData(formData, "email"));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
{ name: 'John', age: 30 }
```

10.

```
function countCharacterOccurrences(str) {
  const count = {};
  for (let char of str) {
    count[char] = (count[char] || 0) + 1;
  }
  return count;
}

const text = "hello world";
console.log(countCharacterOccurrences(text));
```

```
[Running] node
"c:\Users\shiva\OneDrive\Desktop\CLASS\tempCodeRunnerFile.js"
{ h: 1, e: 1, l: 3, o: 2, ' ': 1, w: 1, r: 1, d: 1 }
```