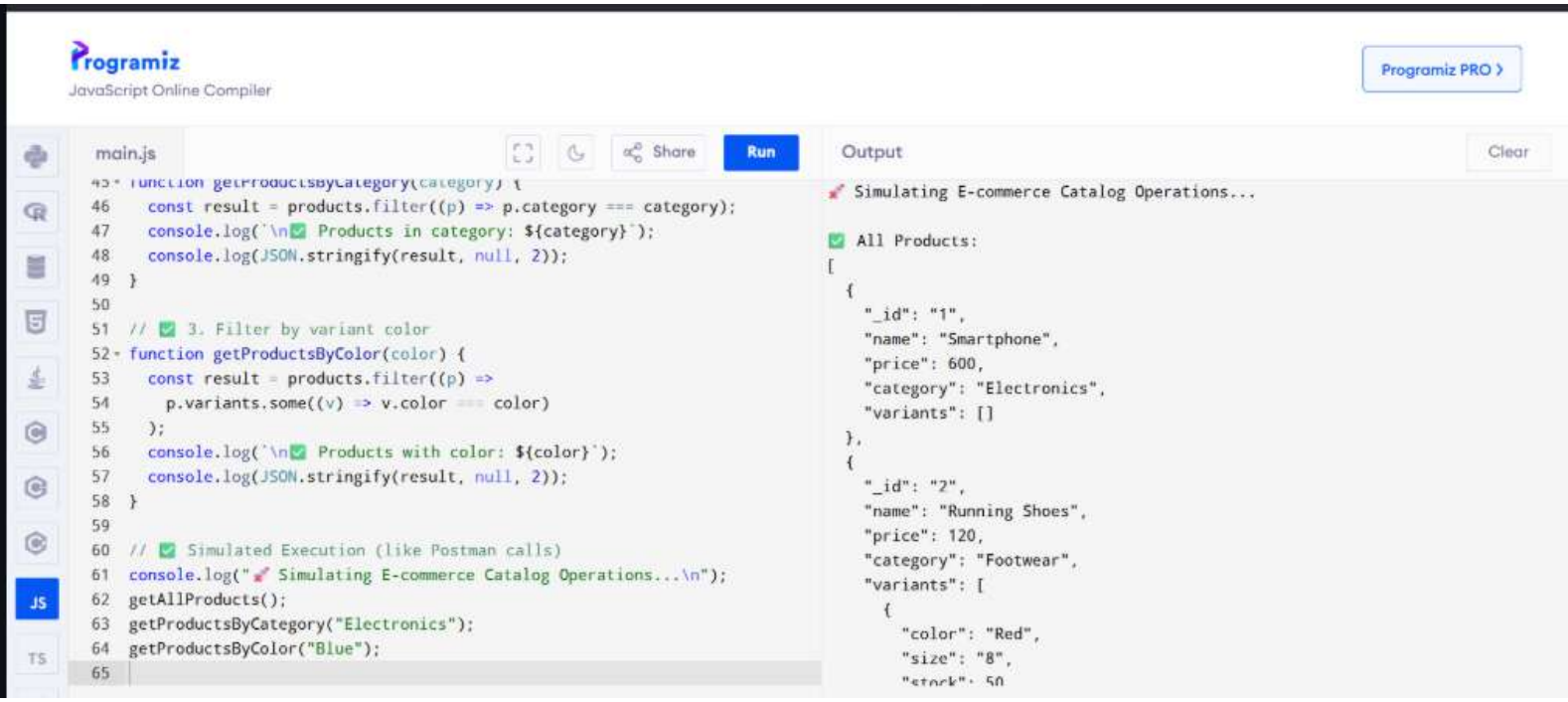
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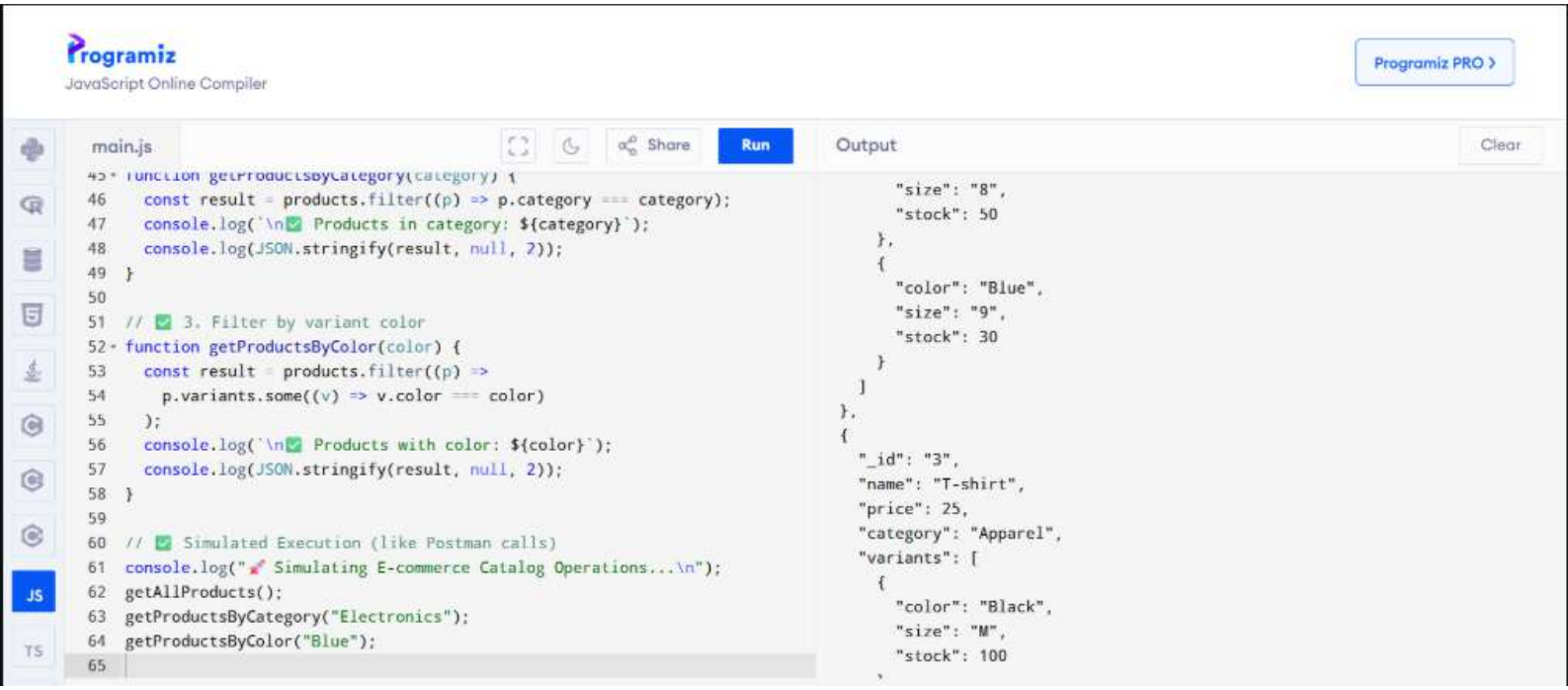
Output
Clear
function getProductsByCategory(category) {
const result = products.filter((p) => p.category === category);
console.log(`\n Products in category: ${category}`);
console.log(JSON.stringify(result, null, 2));
}
// 3. Filter by variant color
function getProductsByColor(color) {
const result = products.filter((p) =>
p.variants.some((v) => v.color === color)
);
console.log(`\n Products with color: ${color}`);
console.log(JSON.stringify(result, null, 2));
}
// Simulated Execution (like Postman calls)
console.log(" Simulating E-commerce Catalog Operations...\n");
getAllProducts();
getProductsByCategory("Electronics");
getProductsByColor("Blue");
Simulating E-commerce Catalog Operations...
All Products:
[
{
"_id": "1",
"name": "Smartphone",
"price": 600,
"category": "Electronics",
"variants": []
},
{
"_id": "2",
"name": "Running Shoes",
"price": 120,
"category": "Footwear",
"variants": [
{
"color": "Red",
"size": "8",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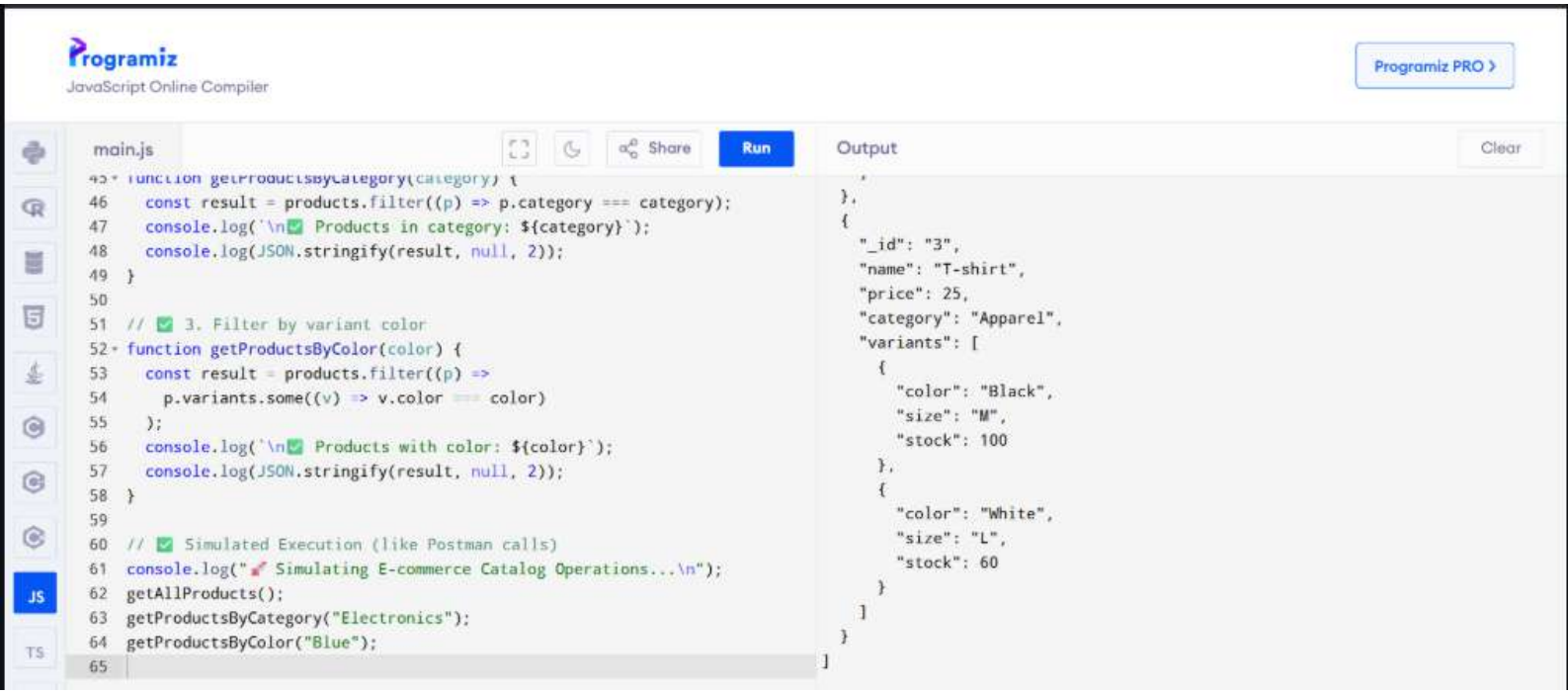
Clear
function getProductsByCategory(category) {
const result = products.filter((p) => p.category === category);
console.log(`\n Products in category: ${category}`);
console.log(JSON.stringify(result, null, 2));
}
// 3. Filter by variant color
function getProductsByColor(color) {
const result = products.filter((p) =>
p.variants.some((v) => v.color === color)
);
console.log(`\n Products with color: ${color}`);
console.log(JSON.stringify(result, null, 2));
}
// Simulated Execution (like Postman calls)
console.log("Simulating E-commerce Catalog Operations...\n");
getAllProducts();
getProductsByCategory("Electronics");
getProductsByColor("Blue");
"size": "8",
"stock": 50
},
{
"color": "Blue",
"size": "9",
"stock": 30
}
]
},
{
"_id": "3",
"name": "T-shirt",
"price": 25,
"category": "Apparel",
"variants": [
{
"color": "Black",
"size": "M",
"stock": 100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Output
Clear
function getProductsByCategory(category) {
const result = products.filter((p) => p.category === category);
console.log(`\n✅ Products in category: ${category}`);
console.log(JSON.stringify(result, null, 2));
}
// ✅ 3. Filter by variant color
function getProductsByColor(color) {
const result = products.filter((p) =>
p.variants.some((v) => v.color === color)
);
console.log(`\n✅ Products with color: ${color}`);
console.log(JSON.stringify(result, null, 2));
}
// ✅ Simulated Execution (like Postman calls)
console.log("🚀 Simulating E-commerce Catalog Operations...\n");
getAllProducts();
getProductsByCategory("Electronics");
getProductsByColor("Blue");
},
{
"_id": "3",
"name": "T-shirt",
"price": 25,
"category": "Apparel",
"variants": [
{
"color": "Black",
"size": "M",
"stock": 100
},
{
"color": "White",
"size": "L",
"stock": 60
}
]
}
]

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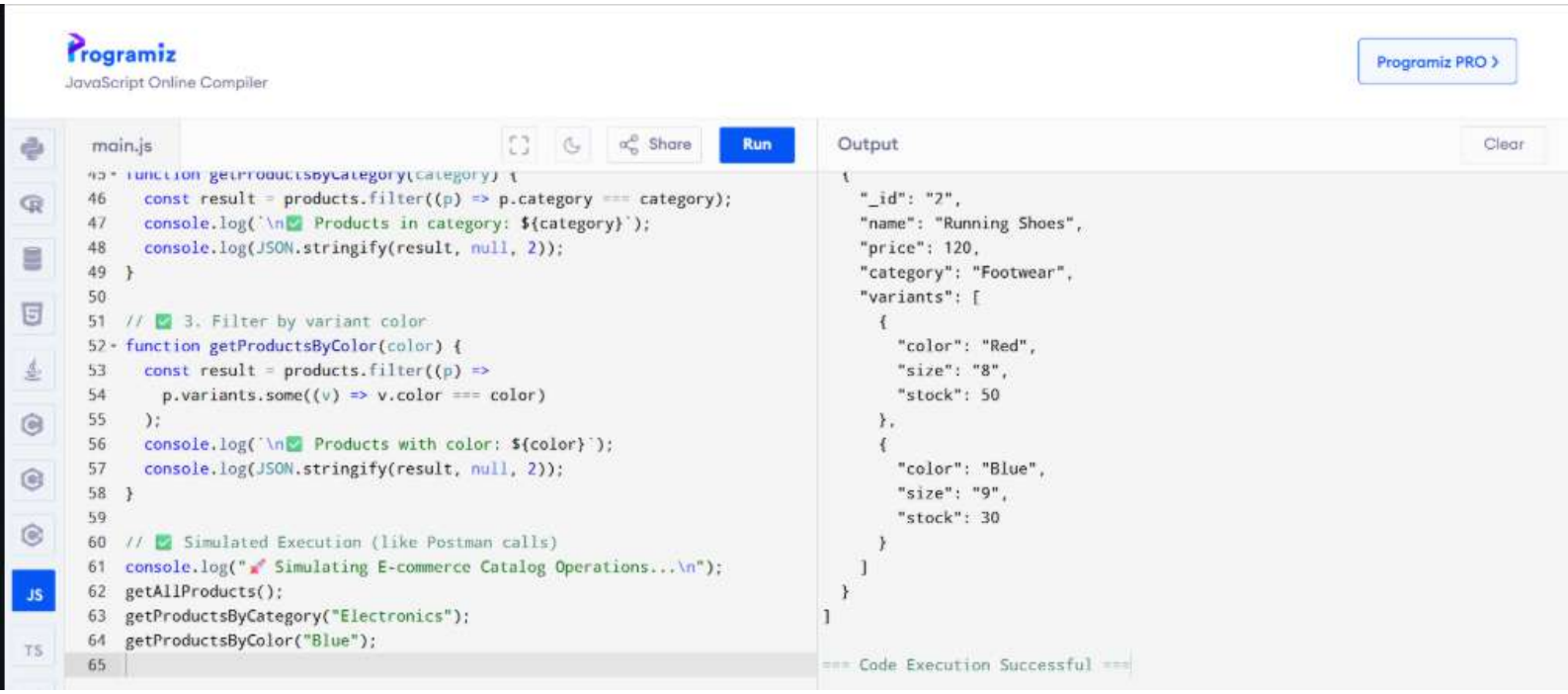
```
function getProductsByCategory(category) {
  const result = products.filter((p) => p.category === category);
  console.log(`\n✅ Products in category: ${category}`);
  console.log(JSON.stringify(result, null, 2));
}

// ✅ 3. Filter by variant color
function getProductsByColor(color) {
  const result = products.filter((p) =>
    p.variants.some((v) => v.color === color)
  );
  console.log(`\n✅ Products with color: ${color}`);
  console.log(JSON.stringify(result, null, 2));
}

// ✅ Simulated Execution (like Postman calls)
console.log("🚀 Simulating E-commerce Catalog Operations...\n");
getAllProducts();
getProductsByCategory("Electronics");
getProductsByColor("Blue");
```

Output

Clear

```
✅ Products in category: Electronics
[
  {
    "_id": "1",
    "name": "Smartphone",
    "price": 600,
    "category": "Electronics",
    "variants": []
  }
]

✅ Products with color: Blue
[
  {
    "_id": "2",
    "name": "Running Shoes",
    "price": 120,
    "category": "Footwear",
    "variants": [
      {
```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}
// ✅ 3. Filter by variant color
function getProductsByColor(color) {
const result = products.filter((p) =>
p.variants.some((v) => v.color === color)
);
console.log(`\n✅ Products with color: ${color}`);
console.log(JSON.stringify(result, null, 2));
}
// ✅ Simulated Execution (like Postman calls)
console.log("🚀 Simulating E-commerce Catalog Operations...\n");
getAllProducts();
getProductsByCategory("Electronics");
getProductsByColor("Blue");
{
"_id": "2",
"name": "Running Shoes",
"price": 120,
"category": "Footwear",
"variants": [
{
"color": "Red",
"size": "8",
"stock": 50
},
{
"color": "Blue",
"size": "9",
"stock": 30
}
]
}
]
=== Code Execution Successful ===