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// 1. Calculating the total price of a customer's order using forEach
const ordersList = [
  { name: "Laptop", price: 120000 },
  { name: "Mobile", price: 70000 },
  { name: "Mobile Charger", price: 1500 },
  { name: "Laptop Charger", price: 10500 }
];

let totalPrice = 0;
ordersList.forEach(item => {
  totalPrice += item.price;
});
console.log(`The total price is Rs. ${totalPrice}`);

// 2. Generating a random number every 2 seconds indefinitely
setInterval(() => {
  const randomNum = Math.floor(Math.random() * 100);
  console.log(randomNum);
}, 2000);

// 3. Adding tax to each expense in an array using map
let expenses = [
  { amount: 100, category: "Utilities" },
  { amount: 200, category: "Groceries" },
  { amount: 50, category: "Entertainment" }
];

let expensesWithTax = expenses.map(expense => {
  return {
    ...expense,
    tax: expense.amount * 0.10
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  };
});
console.log(expensesWithTax);

// 4. Using filter to create an array with only the 'Groceries' category
let groceriesExpenses = expenses.filter(expense => expense.category === "Groceries");
console.log(groceriesExpenses);

// 5. Calculating the total amount of all expenses using reduce
let totalAmount = expenses.reduce((total, expense) => total + expense.amount, 0);
console.log(`Total amount of expenses: Rs. ${totalAmount}`);

// 6. Categorizing expenses as "High Expense" or "Low Expense" using a function with map
function categorizeExpense(expense) {
  return expense.amount > 100 ? "High Expense" : "Low Expense";
}

let categorizedExpenses = expenses.map(expense => {
  return {
    ...expense,
    categoryType: categorizeExpense(expense)
  };
});
console.log(categorizedExpenses);
```