1. Counter Application Using Closure

```
javascript
CopyEdit
function createCounter() {
    let count = 0;
    return function() {
        count++;
        console.log(`Button clicked ${count} times`);
    };
}

const counter = createCounter();
counter();
counter();
counter();
```

2. Destructuring Customer Order

```
javascript
CopyEdit
const customerOrder = {
    orderId: 101,
    productName: "Laptop",
    quantity: 2
};
const { orderId, productName, quantity } = customerOrder;
console.log(`Order ID: ${orderId}, Product: ${productName}, Quantity: ${quantity}`);
```

3. Implementing Cart Feature Using Closure

```
javascript
CopyEdit
function createCart() {
```

```
let cartItems = [];

return function getCartItems() {
    return cartItems;
};
}

const getCartItems = createCart();
console.log(getCartItems());
```

4. Adding Items to Cart Using Closure

```
javascript
CopyEdit
function createCart() {
    let cartItems = [];
    return {
        addToCart: function(productId, name, quantity, price) {
            let existingItem = cartItems.find(item => item.productId
=== productId);
            if (existingItem) {
                existingItem.quantity += quantity;
            } else {
                cartItems.push({ productId, name, quantity, price });
            }
        },
        getCartItems: function() {
            return cartItems;
        }
    };
const cart = createCart();
cart.addToCart(1, "Phone", 2, 500);
cart.addToCart(2, "Laptop", 1, 1200);
cart.addToCart(1, "Phone", 1, 500);
```

5. Removing Item from Cart Using Closure

```
javascript
CopyEdit
function createCart() {
    let cartItems = [];
    return {
        addToCart: function(productId, name, quantity, price) {
            let existingItem = cartItems.find(item => item.productId
=== productId);
            if (existingItem) {
                existingItem.quantity += quantity;
            } else {
                cartItems.push({ productId, name, quantity, price });
        },
        removeFromCart: function(productId) {
            cartItems = cartItems.filter(item => item.productId !==
productId);
        },
        getCartItems: function() {
            return cartItems;
        }
    };
}
const cart = createCart();
cart.addToCart(1, "Phone", 2, 500);
cart.addToCart(2, "Laptop", 1, 1200);
cart.removeFromCart(1);
console.log(cart.getCartItems());
```

6. Music Playlist Management Using Closure

```
javascript
CopyEdit
function createPlaylist(playlistName) {
    let songs = [];
    return {
        addSong: function(songName, artist) {
            songs.push({ songName, artist });
        },
        listSongs: function() {
            console.log(`Playlist: ${playlistName}`);
            songs.forEach(song => {
                console.log(`Song: ${song.songName}, Artist:
${song.artist}`);
            });
        }
    };
}
const myPlaylist = createPlaylist("Chill Vibes");
myPlaylist.addSong("Let It Be", "The Beatles");
myPlaylist.addSong("Bohemian Rhapsody", "Queen");
myPlaylist.listSongs();
```