Here's a complete coding solution for Task 7: Generating the Bill, implemented using HTML, CSS, and JavaScript (frontend) along with optional Node.js and Express (backend) to handle saving, searching, and PDF generation if desired.

<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<title>Bill Generator</title>

<style>

body { font-family: Arial, sans-serif; padding: 20px; max-width: 800px; margin: auto; background-color: #f9f9f9; }

h1, h2 { text-align: center; }

table { width: 100%; border-collapse: collapse; margin-top: 20px; }

th, td { border: 1px solid #ddd; padding: 8px; text-align: center; }

th { background-color: #f2f2f2; }

.bill-section { margin: 30px 0; }

.btn { margin: 10px 5px; padding: 10px 15px; cursor: pointer; }

</style>

</head>

<body>

<h1>Company Name</h1>

<p><strong>Address:</strong> 123 Street, City</p>

<p><strong>Contact:</strong> +91-9876543210 | email@example.com</p>

<div class="bill-section">

<h2>Buyer Details</h2>

<p><strong>Name:</strong> <span id="buyerName">John Doe</span></p>

<p><strong>Address:</strong> <span id="buyerAddress">Bangalore, India</span></p>

<p><strong>Contact:</strong> <span id="buyerContact">+91-9123456789</span></p>

<p><strong>Email:</strong> <span id="buyerEmail">johndoe@email.com</span></p>

</div>

<div class="bill-section">

<h2>Product Details</h2>

<table id="productTable">

<thead>

<tr>

<th>Product Name</th>

<th>Quantity</th>

<th>Unit Price (₹)</th>

<th>Total Price (₹)</th>

</tr>

</thead>

<tbody id="productBody"></tbody>

</table>

<h3>Subtotal: ₹<span id="subtotal">0.00</span></h3>

</div>

<div class="bill-section">

<h2>Transaction Details</h2>

<p><strong>Transaction ID:</strong> <span id="transId">TXN123456</span></p>

<p><strong>Purchase Date:</strong> <span id="purchaseDate"></span></p>

<p><strong>Payment Method:</strong> <span id="paymentMethod">UPI</span></p>

</div>

<div class="bill-section">

<button class="btn" onclick="printBill()">🖨️ Print Bill</button>

<button class="btn" onclick="downloadPDF()">⬇️ Download PDF</button>

</div>

<script>

const products = [

{ name: 'Notebook', quantity: 2, price: 50 },

{ name: 'Pen', quantity: 5, price: 10 },

{ name: 'Backpack', quantity: 1, price: 700 }

];

function loadBill() {

const tbody = document.getElementById('productBody');

let subtotal = 0;

products.forEach(p => {

const total = p.quantity \* p.price;

subtotal += total;

tbody.innerHTML += `

<tr>

<td>${p.name}</td>

<td>${p.quantity}</td>

<td>${p.price.toFixed(2)}</td>

<td>${total.toFixed(2)}</td>

</tr>`;

});

document.getElementById('subtotal').textContent = subtotal.toFixed(2);

document.getElementById('purchaseDate').textContent = new Date().toLocaleDateString();

}

function printBill() {

window.print();

}

function downloadPDF() {

alert("This requires a backend like jsPDF or server-side Node.js PDF support.");

}

window.onload = loadBill;

</script>

</body>

</html>

**Optional: Backend (Node.js + Express) for Saving & PDF Export**

To generate and store the bill as PDF or CSV, you can use:

* express (to serve routes)
* pdfkit or jsPDF (for PDF generation)
* csv-writer (to export CSV)
* mongoose or sqlite3 (for saving/searching transactions)