

# ALGORITHM

## Algorithm for Invoice Generator:

1. Start
2. Take user inputs:
  - a. Customer details (name, date, invoice number)
  - b. List of items (name, quantity, unit price, warranty, etc.)
3. Calculate total for each item:
  - a.  $\text{Item Total} = \text{Quantity} \times \text{Unit Price}$
4. Compute the grand total by summing all item totals.
5. Generate the PDF invoice using the ReportLab library:
  - a. Add company and customer details
  - b. Add itemized table with all item data
  - c. Add grand total and warranty details
6. Save the PDF invoice
7. End

## Pseudocode for Invoice Generator:

- Start
- Input: Customer details (Name, Date, and Invoice No.)
- Input: Number of items
  
- For each item:
  - Input: Item name, Quantity, Unit Price, Warranty
  - Calculate:  $\text{Item Total} = \text{Quantity} \times \text{Unit Price}$
  - Store item details and total
  
- Calculate:  $\text{Grand Total} = \text{Sum of all item totals}$
  
- Generate PDF:
  - Add: Company details
  - Add: Customer details
  - Add: Table with all items and totals
  - Add: Grand Total and warranty information
  
- Save the PDF file
  
- End

## Flow chart of Algorithm:

