

Part 1

1. Enter and store product names and initial stock levels
In -
Out ProductName, Stock
2. Calculate and store product codes
In ProductName
Out ProductCode
3. Display product names and codes
In ProductName, ProductCode, Stock
Out -
4. Start conditional loop
5. Display menu
6. Get option from user
7. Where option is F, perform Find a product
In ProductName, ProductCode, Stock
Out -
8. Where option is P, perform Purchase a product
In ProductName, ProductCode
Out Stock
9. Where option is Q, perform Quit
10. End conditional loop when Q is chosen
11. Display final stock check
In ProductName, ProductCode, Stock
Out -

Part 2

Refine Step 2 – Calculate and store product codes.

- 2.1 For each product
- 2.2 Set current product code = first 3 characters of name + last 3 characters of name
- 2.3 Next Product

Refine Step 7 – Where Option is F, perform find a product

- 7.1 Ask for and store a target product code
- 7.2 set found to false
- 7.3 Set position to 0
- 7.4 do the following
 - 7.5 Add one to position
 - 7.6 if current product code = target then
 - 7.7 Display column headings
 - 7.8 Display product name, product code and stock level
 - 7.9 Set found to true
 - 7.10 end if
- 7.11 Loop until product found or last item
- 7.12 if product not found then display a message

Refine step 8 – perform purchase a product

- 8.1 Ask for and store a target product code
- 8.2 set found to false
- 8.3 Set position to 0
- 8.4 do the following
 - 8.5 add one to position
 - 8.6 if current product code = target then
 - 8.7 If product stock greater than zero then
 - 8.8 Display column headings
 - 8.9 Display product name, product code and in stock
 - 8.10 Take one from current stock level
 - 8.11 Display purchase confirmed
 - 8.12 Else
 - 8.13 Display Product out of stock
 - 8.14 End if
 - 8.15 Set found to true
 - 8.16 end if
- 8.17 loop until found or last item
- 8.18 if product not found then display not found message