

Date: _____

Problem 4 : Grocery Assistance / calculator

Understood : Mr. Bhoola buys fruits. we have to calculate from him the money he owe. Ask him cash he carries currently and how much change he gets back.

Solution : Inquire him about how much cash he is carrying the price and quantity of vegetables and how much he has to pay I will tell by multiplying the cost with quantity of each and adding for all fruits and veggies.

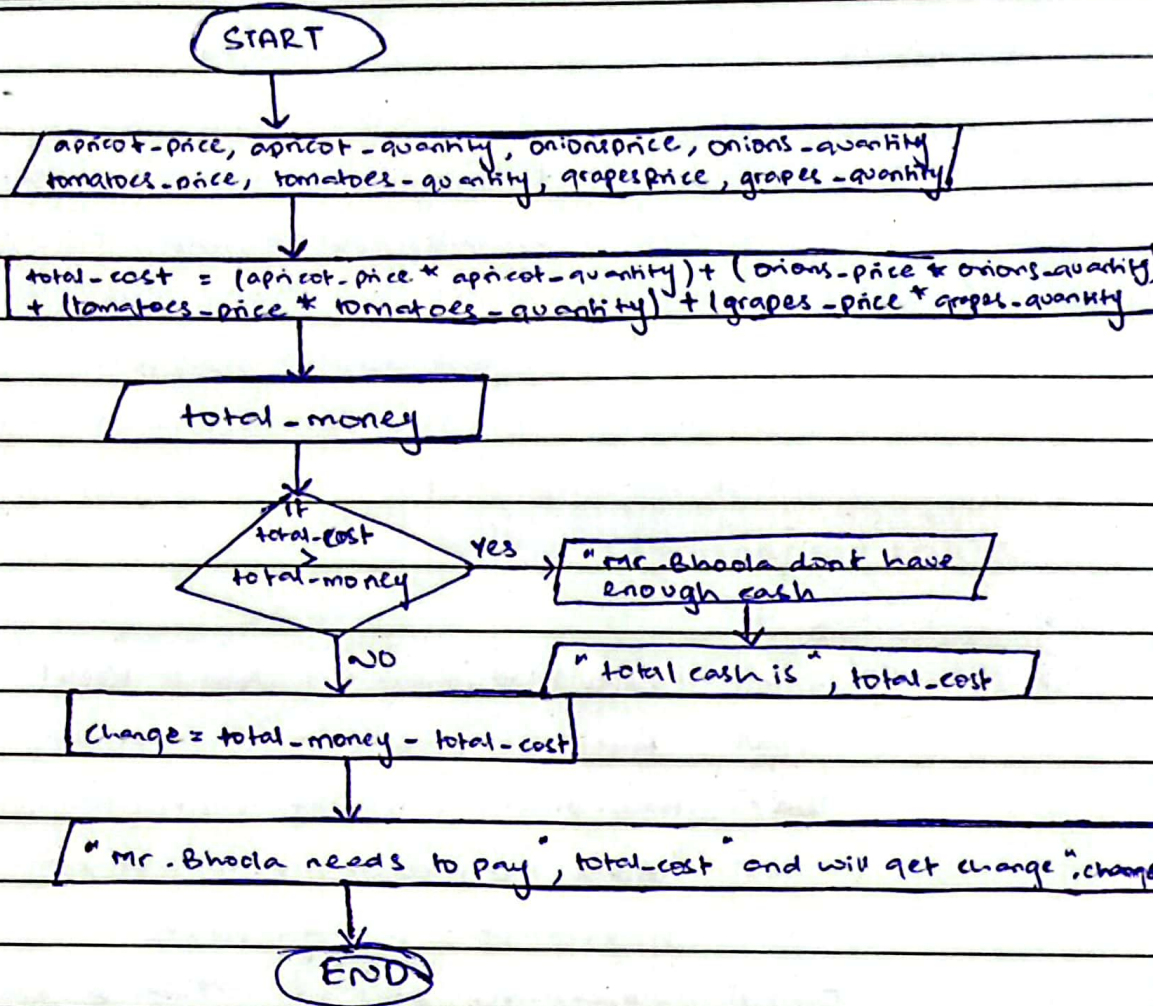
Pseudocode :

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START → OUTPUT "Enter total money you have" INPUT total-money
        OUTPUT "Enter the price and quantity of onions"
        INPUT price-onions, quantity-onion
        OUTPUT "Enter the price and quantity of apricots"
        INPUT price-apricots, quantity-apricots
        OUTPUT "Enter the price and quantity of grapes"
        INPUT price-grapes, quantity-grapes
        OUTPUT "Enter the price and quantity of tomatoes"
        INPUT price-tomatoes, quantity-tomatoes
        total-cost = (quantity-onions * price-onions) + (quantity-grapes * price-grapes)
                    + (quantity-apricots * price-apricots) + (quantity-tomatoes * price-tomatoes)
        IF total-cost > total-money THEN
            OUTPUT "Mr. Bhoola does not have enough money"
            OUTPUT "Total cost is ", total-cost
        ELSE
            change = total-money - total-cost
            OUTPUT "Mr. Bhoola needs to pay", total-cost
            OUTPUT "Mr. Bhoola will get back", change
        END IF
END
```

MIGHTY PAPER PRODUCT

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Flowchart :



IPD chart :

Input	Process	Output
<ul style="list-style-type: none"> - Quantity and Price of fruits and vegetables (Onions, apricot, grapes, tomatoes) 	<ul style="list-style-type: none"> - Read each quantity and price - Calculate the total cost by multiplying each quantity with its price and summing the results. - Check if total cost is greater than money Mr. Bhoola have - Calculate change by difference of total money and total cost. 	<ul style="list-style-type: none"> - Total cost of all items - Message if Mr Bhoola does not have enough cash - Amount Mr Bhoola needs to pay - change he will receive.