# PROBLEM #4

Start

Declare Present_Money , amount-of-onion

price-of-onion, amount-of-apricots

price-of-apricots, amount-of-grapes

price-of-grapes , amount-of-tomatoes

price-of-tomatoes, change , total-cost,

~~amount-needed~~ as float

Output " Enter the amount of money present"

Input Present_Money

Output " Enter the price of in kg of onion"

Input price-of-onion.

Output" Enter the Amount of onion to buy"

Input amount-of-onion.

Output "Enter the price in kg of apricots"

Input price-of-apricots

Output" Enter the Quantity of apricots to buy"

Input ' amount-of-apricots.

Output" Enter the price of in kg of grapes"

Input prices-of-grapes

Output "Enter the quantity of grapes to buy"
Input amount-of-grapes.

Output "Enter the price in kg of Tomatoes"
Input price-of-tomatoes

Output "Enter the quantity of Tomatoes to buy"
Input amount-of-tomatoes.

total-Cost = (amount-of-onion * price-of-onion) +
            (amount-of-apricots * price-of-apricots) +
            (amount-of-grapes * price-of-grapes) +
            (amount-of-tomatoes * price-of-tomatoes)

if Present-Money == total-Cost
    Then
        Output "Mr Bhoola can buy all items"
Elseif Present-Money > total-Cost
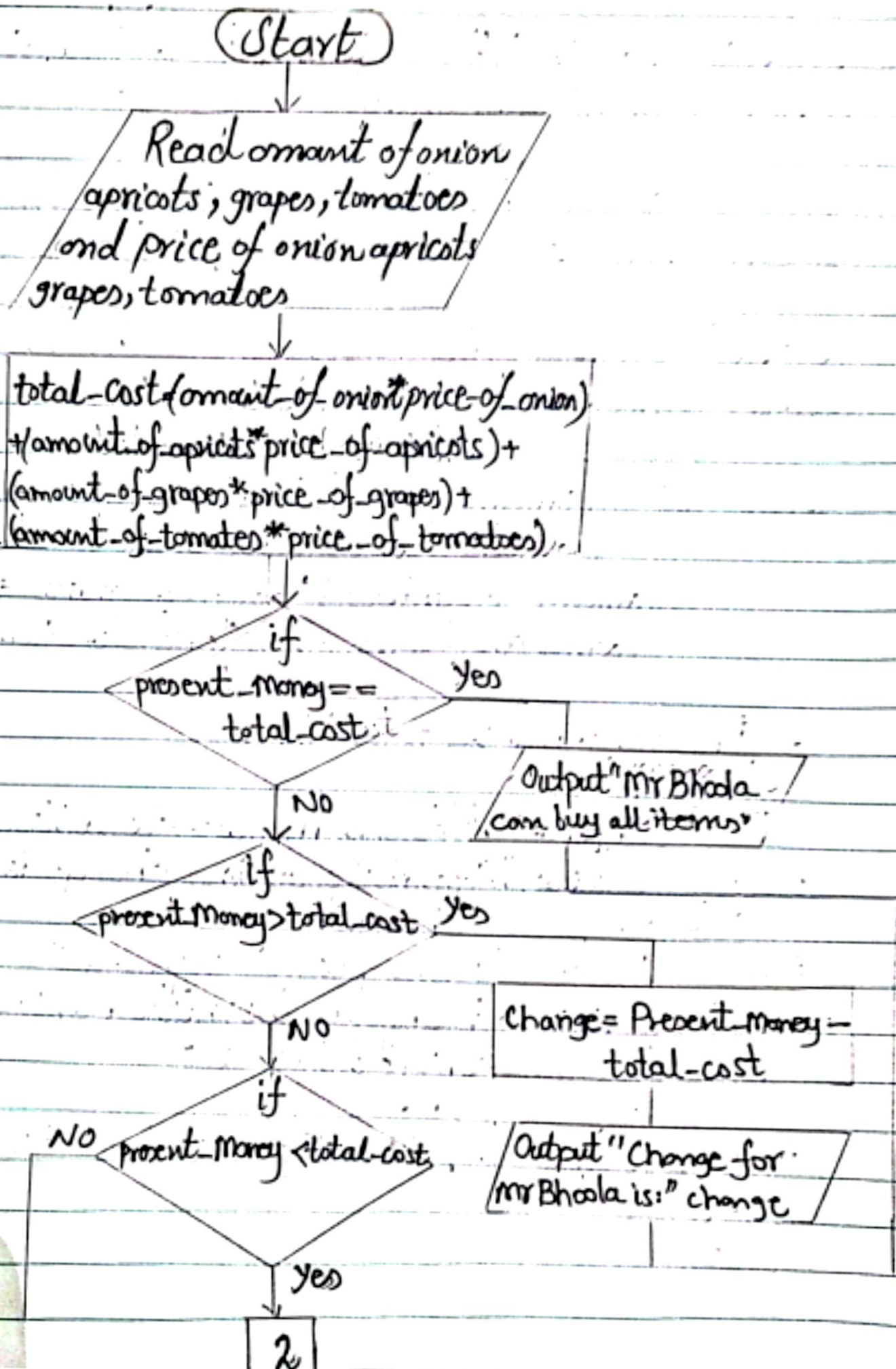    Then
        Change = Present-Money - total-cost
        Output "Change for Mr Bhoola is:" change
elseif Present-Money < total-cost
    Then
        Output "Mr Bhoola connot buy items"
Endif
  End

```
         ┌─────────┐
         │  Start  │
         └────┬────┘
              ▼
    ╱─────────────────────╲
   ╱  Read amount of onion  ╲
  ╱  apricots, grapes, tomatoes╲
 ╱  and price of onion apricots ╱
  ╲  grapes, tomatoes          ╱
   ╲─────────────────────────╱
              │
              ▼
```

total_cost (amount_of_onion * price_of_onion)
+ (amount_of_apricots * price_of_apricots) +
(amount_of_grapes * price_of_grapes) +
(amount_of_tomatoes * price_of_tomatoes)

```
              │
              ▼
        ╱─────────╲
       ╱   if      ╲        Yes
      ╱ present_money== ╲─────────────┐
      ╲  total_cost     ╱             │
       ╲───────────────╱              ▼
              │ No           ╱──────────────────╲
              │             ╱  Output "Mr Bhoola  ╱
              │             ╲  can buy all items" ╱
              ▼              ╲──────────────────╱
        ╱─────────╲                   │
       ╱   if      ╲     Yes          │
      ╱ present_money> ╲──────────────┤
      ╲  total_cost    ╱              │
       ╲──────────────╱               ▼
              │ No         ┌────────────────────────┐
              │            │ Change = Present_money  │
              │            │       - total_cost      │
              ▼            └───────────┬────────────┘
        ╱─────────╲                    │
  No   ╱   if      ╲                   ▼
 ┌────╱ present_money ╲      ╱──────────────────╲
 │    ╲ < total_cost  ╱     ╱  Output "Change for ╱
 │     ╲─────────────╱      ╲  mr Bhoola is:" change╱
 │           │ yes           ╲──────────────────╱
 │           ▼
 │       ┌──────┐
 └──────▶│  2   │
         └──────┘
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```
      ┌─────┐
      │  1  │
      └──┬──┘
         │
         ▼
   ┌──────────────────────┐
   │ Output "Mr Bhoola    │
   │ Cannot buy items"    │
   └──────────────────────┘
         │
         ▼
      ( End )
```

# Problem 4 IPO

| Input | Process | Module Reference | Output |
|---|---|---|---|
| Amount of money Present | Enter amount of money present | Read | items mr Bhool can buy |
| price of onion, apricots grapes, tomatoes | Enter amount of onion, apricots, grapes, tomatoes | Read | |
| amount of onion, apricot grapes, tomatoes | Enter amount of onion, apricot, grapes, tomatoes | Read | |
| | total cost = (amount of onion * price of onion) + (amount of apricot * price of apricot) + (amount of grapes * price of grapes) + (amount of tomatoes * price of tomatoes) | calc | |
| | if PresentMoney == total cost Print "Mr Bhool a con buy" else if PresentMoney > total cost change = PresentMoney - total cost | calc print calc calc | |

| | |
|---|---|
| Output " chge as for My Bhoola is : change" | Print |
| else if Present Money < total-cost | calc |
| mr Bhoola cannot buy items | Print |