

Q4

INPUT

PROCESS

OUTPUT

• Budget

• CurrPrice

• CurrAmount

• Choice

$$\text{TotalSpend} = \text{Budget} - (\text{CurrPrice} \times \text{CurrAmount})$$
$$\text{change} = \text{TotalSpend} - \text{Budget}$$
TotalSpend
change

ART (Q4)

DECLARE CurrAmount: REAL

DECLARE CurrPrice: REAL

DECLARE Choice: INTEGER

Date: _____

DECLARE Budget: REAL

DECLARE DoneFlag: BOOLEAN

DECLARE TotalSpend: REAL

TotalSpend \leftarrow 0

OUTPUT "How much money do you have with you?"

INPUT Budget

REPEAT

OUTPUT "What is the /kg price of this fruit/vegetable?"

INPUT CurrPrice

OUTPUT "How many kgs have you bought?"

INPUT CurrAmount

IF (CurrAmount * CurrPrice) > (Budget - TotalSpend)

THEN

OUTPUT "you do not have enough money."

ELSE

TotalSpend \leftarrow TotalSpend + (CurrAmount * CurrPrice)

ENDIF

OUTPUT "You have", (Budget - TotalSpend), "left to spend"

OUTPUT "Enter 1 if you are going to buy something else.

Enter 2 if shopping is complete"

INPUT Choice

IF Choice == 2

THEN

DoneFlag \leftarrow False

ELSE

IF Choice <> 1

THEN

OUTPUT "Invalid Choice"

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Date: _____

ENDIF

ENDIF

UNTIL (DoneFlag = TRUE) OR (TotalSpend \geq Budget)

IF DoneFlag = TRUE

THEN

OUTPUT "The amount payable is", TotalSpend, " and the
change is", Budget - TotalSpend

ELSE

IF TotalSpend = Budget

THEN

OUTPUT "You are out of money"

ENDIF

END ENDIF

