

Part A: Question : 1.

Table: 1: Tracing Table.

Count 1	Count 2	Total	Count 2 < 5	Count 1 < 3	Output
0	0	0			
1	1	0	True		
	2	1	True		
	3	3	True		
	4	6	True		
	5	10	True		
2			False	True	
3			False	True	
			False	False	10, 3, 5

Question 2:

Table 2: Tracing Table

m	n	Output
		17
12	5	25
15	10	0
5	17	8
8	8	60
20	15	

Page: 1.

Question: 3.

Table: 3

Question	Instruction
(i)	years < 1
(ii)	$Y \leq 1$ years
(iii)	$AVG = \text{total RF} / TM$
(iv)	$M \leq 12$
(v)	$Y = Y + 1$
(vi)	rainfall < 0
(vii)	total RF = total RF + rainfall

Question: 4

Table: 4

No	Vehicle ID	Vehicle Year	Vehicle Type	Vehicle Price (RM)	discount	discounted price (RM)
1.	V0001	2015	superbike	18,000.00	0.03	17460
2.	V0002	2012	car	55,000.00	0.05	52250
3.	V0003	2014	car	43,000.00	0.05	40850
4.	V0004	2014	superbike	21,000.00	0.04	20160
5.	V0005	2016	car	63,000.00	0.04	60480

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Question: 5

Table: 5

Tracing Table 1

A	B	X	$X < 5$	Z
3	5	0		8
4	4	1	Yes	3
5	3	2	Yes	2
6	2	3	Yes	3
7	1	4	Yes	6
8	0	5	No	3

Table: 6 Tracing Table: 2

P	Q	R	$(P \vee Q = 0) \wedge (Q \vee R = 0)$	$P < Q$
3	5	8	No	Yes
4	4	3	Yes	No
5	3	2	No	No
6	2	3	Yes	No
7	1	6	No	No
8	0	3	Yes	No

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Question:6

Table:7 tracing table.

No	number	total Pay	Output
(i)	0		Program Ends
(ii)	1	700	Household, 700
(iii)	2	200	Commercial, 200
(iv)	3	2800	Industrial, 2800
(v)	4		Program Ends

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Question : 7.

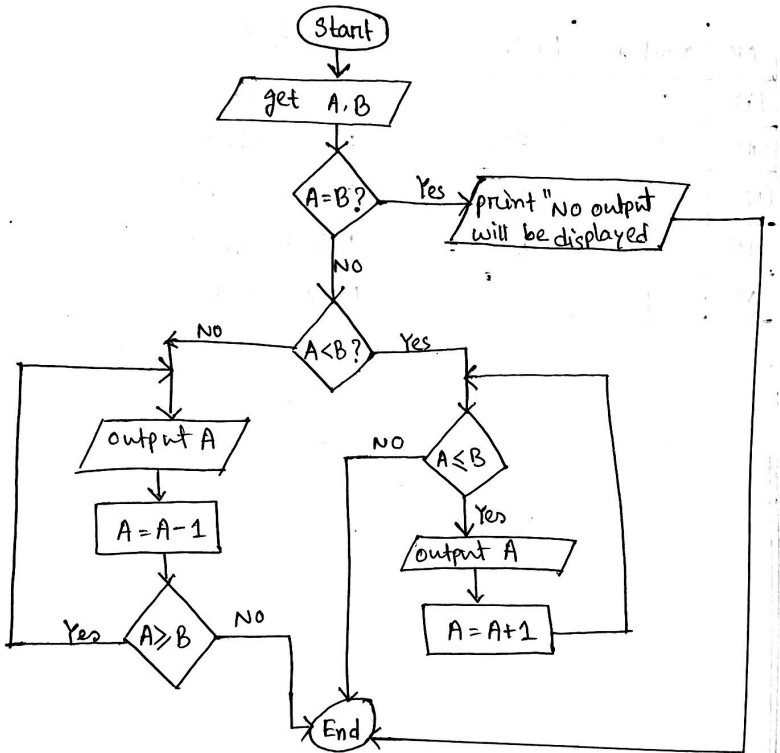


figure : Flowchart.

Part B: Problem Solving

a)

show kilo

showkilometers (x)

$km = x * 0.001$

Return km

b)

showInches (x)

$in = x * 39.37$

Return in

c)

showFeet

$ft = x * 3.281$

Return ft

d)

