

PART A: STRUCTURED QUESTIONS

QUESTION 1

Table 1: Tracing table

Count1	Count2	Total	Count2<5	Count1<3	Output
0	0	0			
1	0	0	true		
	1	1	true		
	2	3	true		
	3	6	true		
	4	10	true		
	5		False	true	
2	0	0	true		
	2	2	true		
	4	6	true		
	5		false	true	
3			false	false	10 3 5

QUESTION 2

Table 2: Tracing table

m	n	output
12	5	17
15	10	0
5	17	0
8	8	8
20	15	60

QUESTION 3

- i. $Y < 1$
- ii. $M < 12$
- iii. $Avg = \text{totalrain} / (\text{years} * 12)$
- iv. $M \leq 12$
- v. $Y = Y + 1$
- vi. $RF < 0$
- vii. $\text{totalRF} = \text{totalrain} + RF$

QUESTION 4

Table 4: Tracing table

No	vehicleID	vehicleYear	vehicleType	vehiclePrice (RM)	discount	discountedPrice (RM)
1	V0001	2015	Superbike	18,000.00	0.03	17,460.00
2	V0002	2012	Car	55,000.00	0.05	52,250.00
3	V0003	2014	Car	43,000.00	0.05	40,850.00
4	V0004	2014	Superbike	21,000.00	0.04	20,160
5	V0005	2016	car	63,000.00	0.04	60,480

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	-

Table 6: Tracing table 2

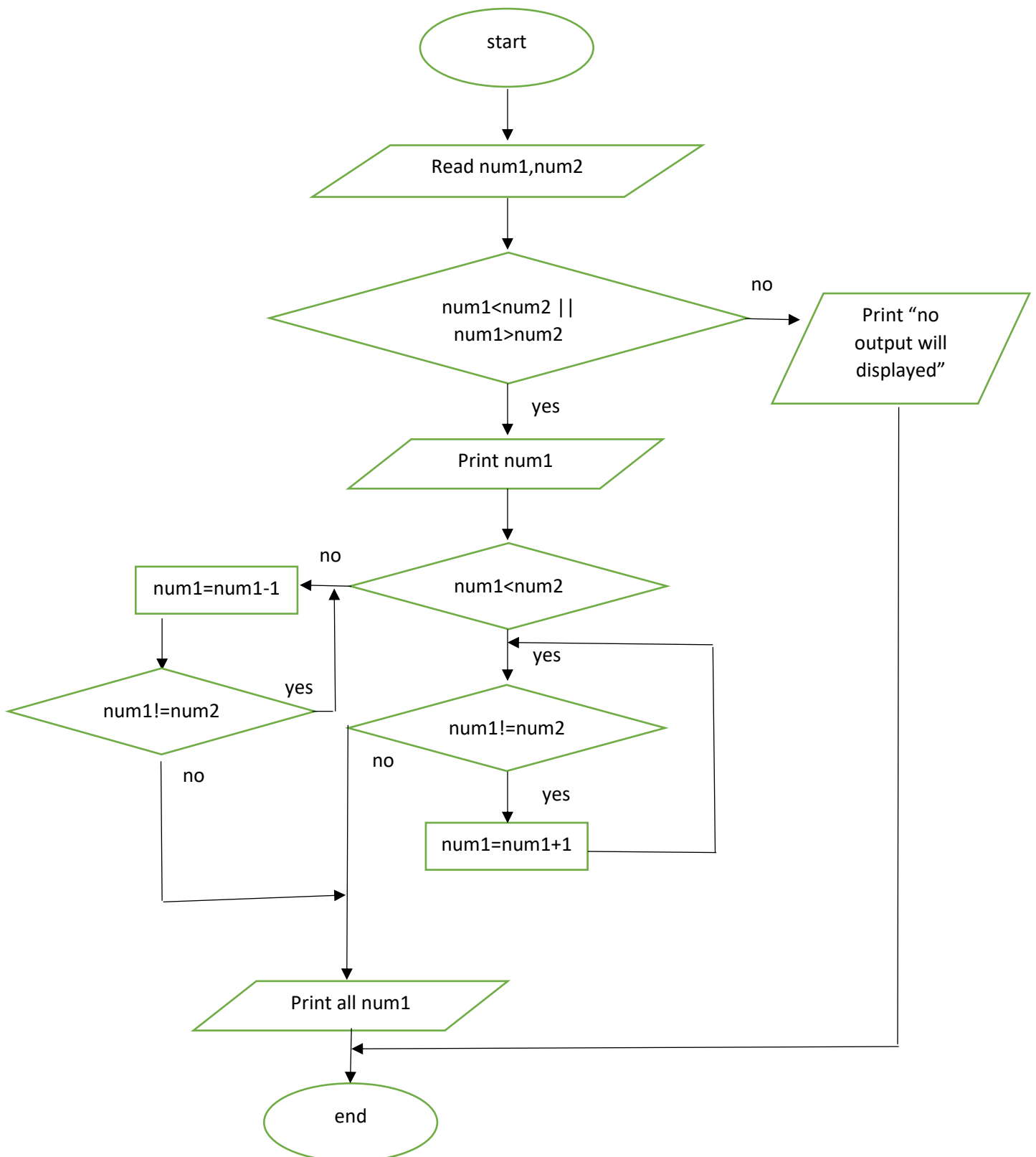
P	Q	R	(P%2=0) && (Q%2=0)	P<Q
3	5	3	FALSE	YES
4	4	3	TRUE	-
5	3	3	FALSE	NO
6	2	3	TRUE	-
7	1	3	FALSE	NO

QUESTION 6

Table 7: Tracing table

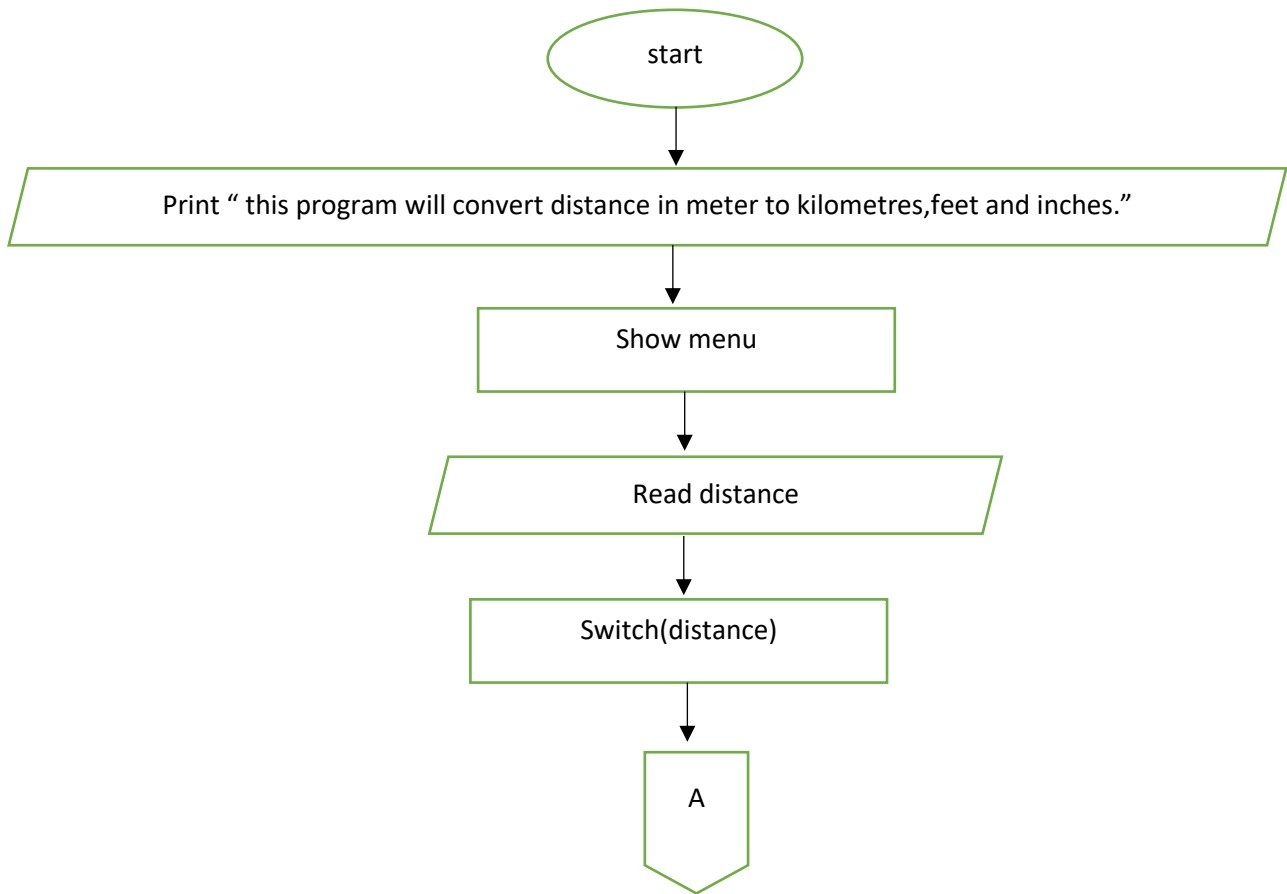
No	number	totalPay	Output
i.	0	-	Program Ends
ii.	1	700	Household 700
iii.	2	200	Commercial 200
iv.	3	2800	Industrial 2800
v.	4	-	Program Ends

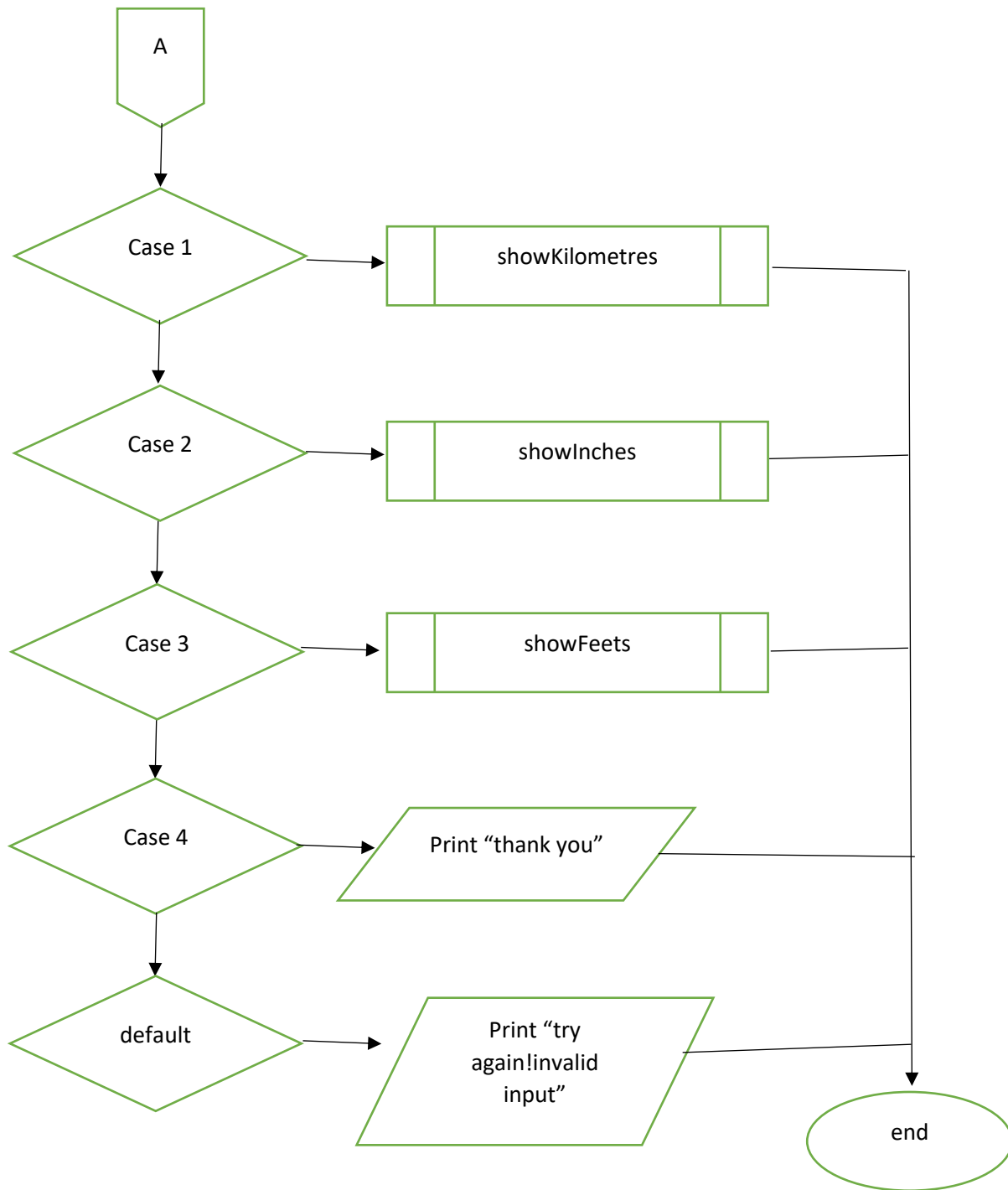
QUESTION 7



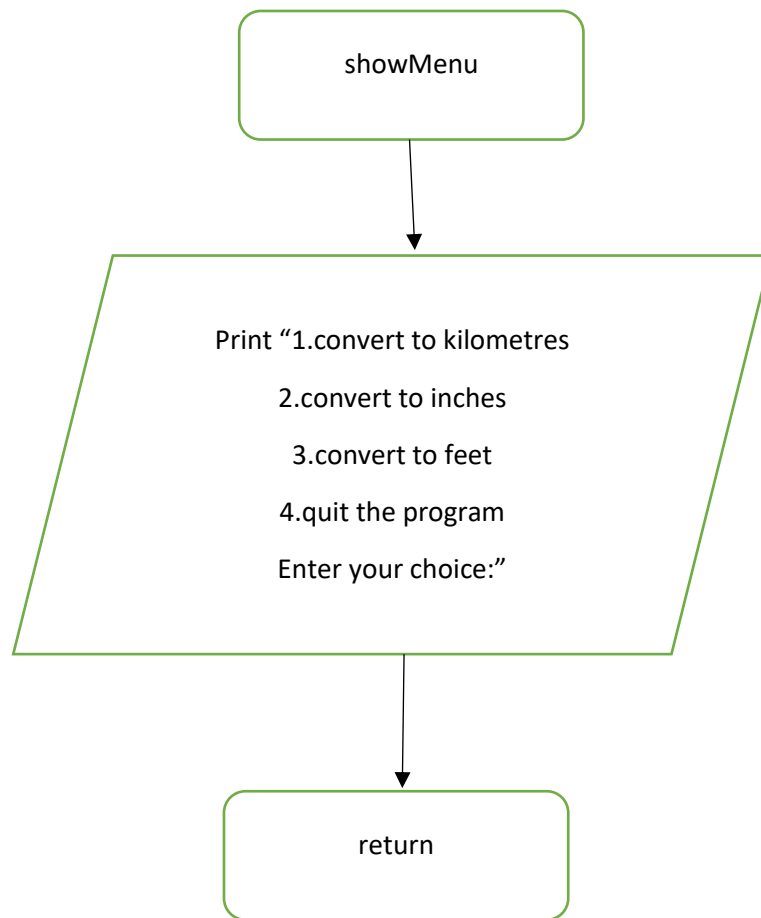
PART B: PROBLEM SOLVING

Main function

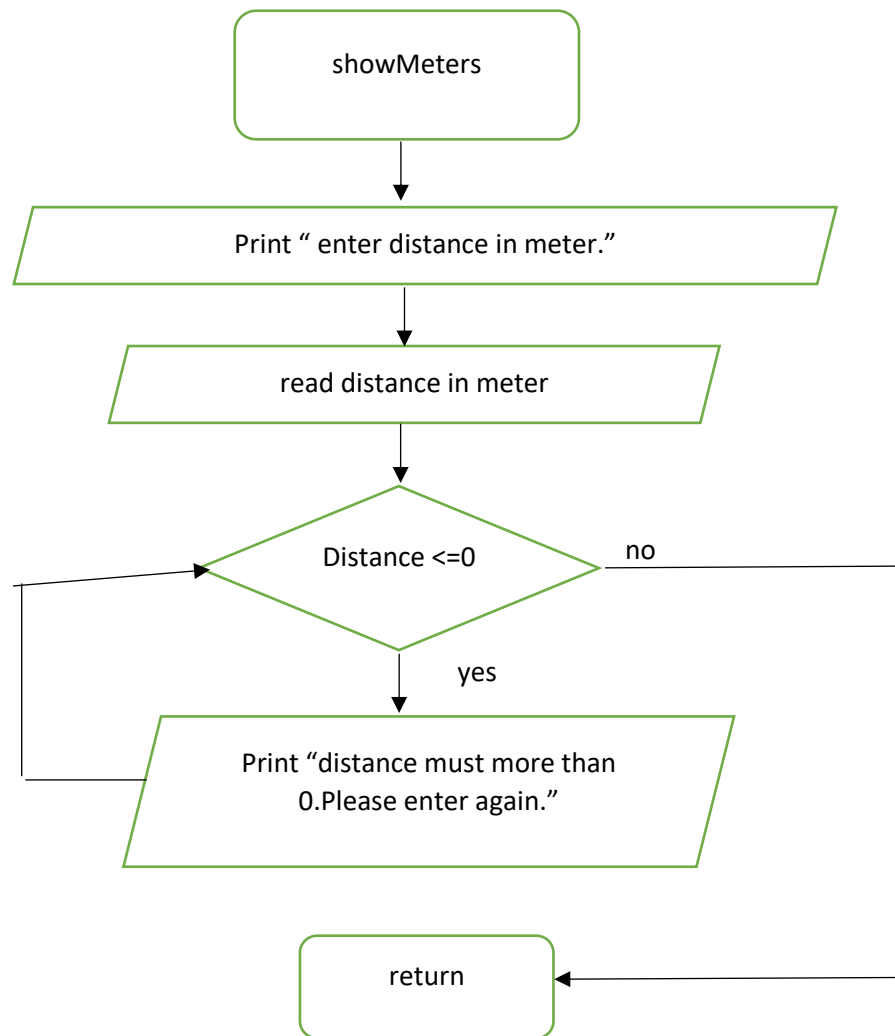




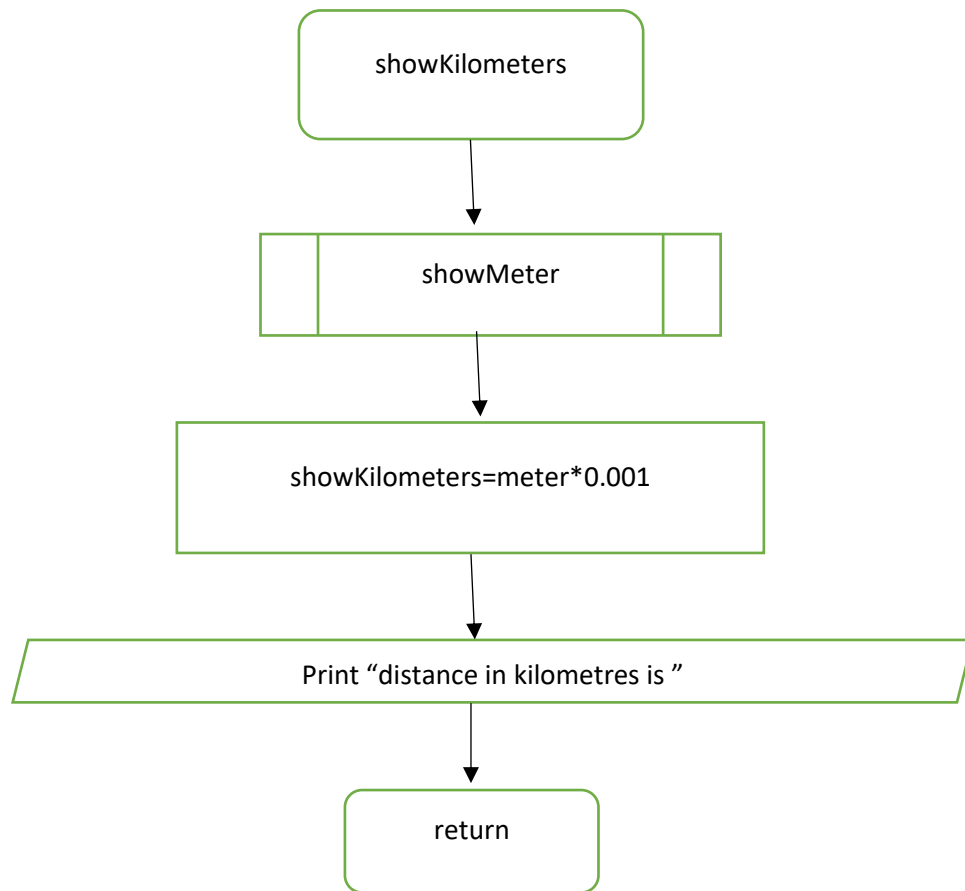
showMenu Function



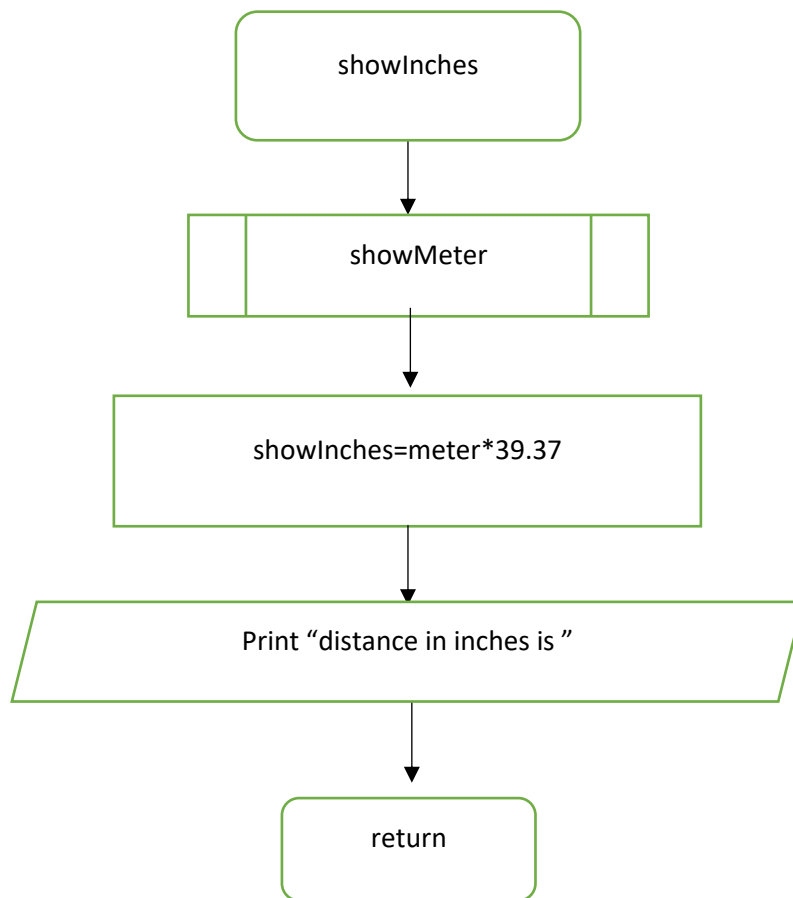
showMeters Function



showKilometres Function



showInches Function



showFeet Function

