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## Experiment No. 3

Aim 8- lurite ouprogram in c/C++ to read

5 side of a tricingle & to determine whether they form scalene, isosceles or equilateral tricingle and test the same using basic path testing and file find its V(G) by all the three methods.

Theory: Basic path helps a tester to
compute logical complexity measure, v

(G). of the cade. This value of V(G),
defines the maximum number of
test cases to be designed by identifying
basic get set of execution paths to
ensure that all statements are executed
out least once

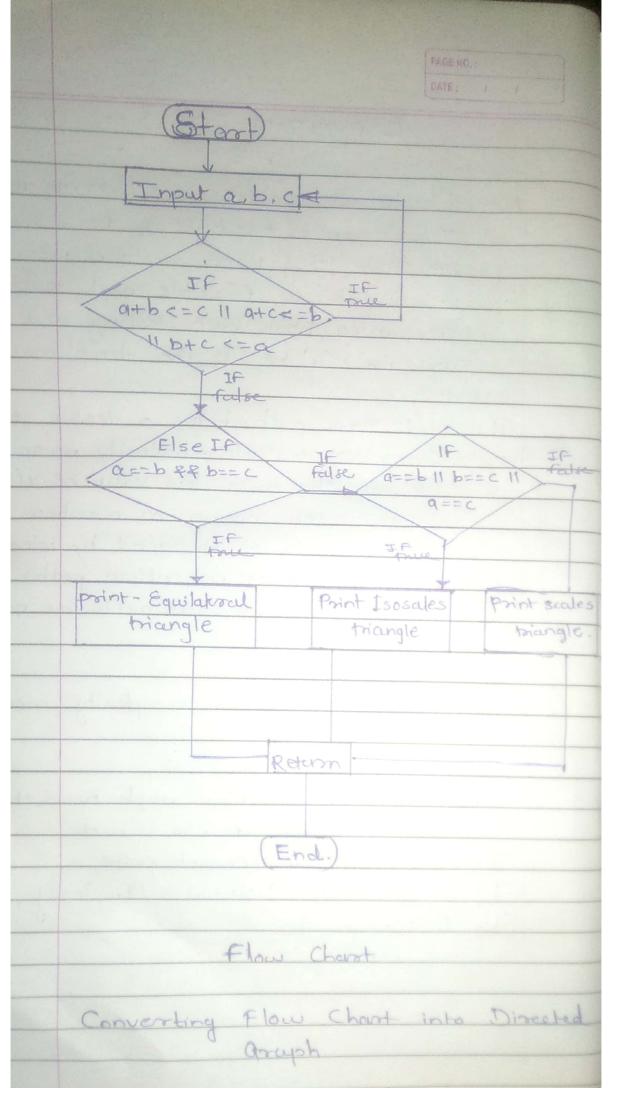
Steps to compute the complexity measure, V(G) are as under

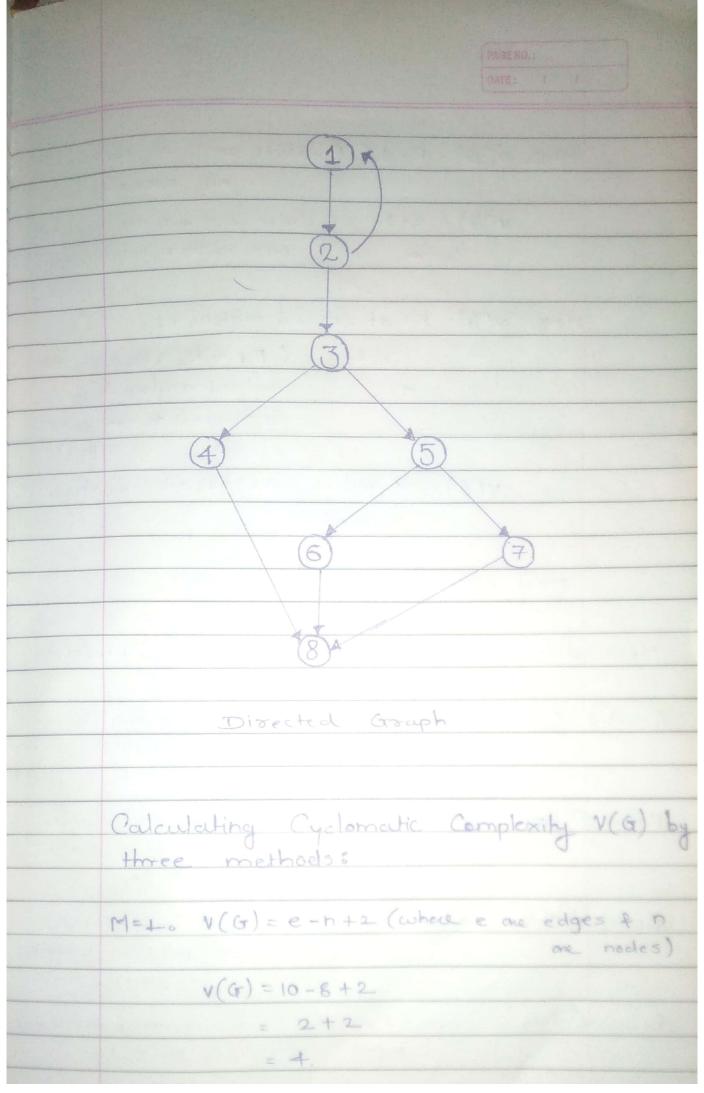
Step 1. Construct the Flow graph from the source code of flow charts.

Step 2. Identify independent paths.

Step 3. Calculate Cyclomatic Complexity. V(G)

Step 4. Design the test cases.





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	M=2.		predicate nodes with out degree = 2) 2, + + 6 are possolicate with 2 outgoing edge	
	M=8.	V(G) = No. of enclosed rec	gions +1	
$= 3+1  (R_1 + R_2 + R_3)  \text{one the}$ $= 4.  \text{enclosed regions} + 1$				
		= 4. enclo	sed regions to one outer	
			recaion)	
		V(G) = 4 and is scure	by all the three	
		methods.		
	Test	cases for each path	ane :	
Test	ases	valid Input	Expected results.	
Enlist 18	Frath	a,b,c: valid input	if s=bor b=c o a=c then'isosco tricungle display	
Enlist 2	nd Poth	e,b,c:valid input	if a + b + c + hen scalene triangle also played.	
Enlist 3	od Path	a,b,c: valid input	if a=b=c then 'Equilatoral mangle displayed	
Enlist 4	h Path	a,b,c!invalid	of a,b,c	

F:\#BLACKHEART\#SOFTWARE\_TESTING\Practical Programs\Practical\_No\_3.exe

Enter value of sides for trianlge : 6 10 6

Isosceles Triangle

F:\#BLACKHEART\#SOFTWARE\_TESTING\Practical Programs\Practical\_No\_3.exe Enter value of sides for trianlge :

12 15 17

Scalene Triangle

F:\#BLACKHEART\#SOFTWARE\_TESTING\Practical Programs\Practical\_No\_3.exe

Enter value of sides for trianlge :

10 10 20

Invalid Entries

Enter value of sides for trianlge :

28 28 28

Equilateral Triangle