**PROBLEM STATEMENT**

**Consider the following source code of function F():**

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Description automatically generated**

**PROBLEM: Branch and Multiple-Condition testing.**

1. For function F() derive a set of test cases that covers branch testing (all branches are executed). Show that your test cases execute all branches, i.e., for each branch show which test executes this branch.

2. Derive additional test cases that cover multiple-condition testing. Show that your test cases execute all combinations of simple conditions for all complex predicates, i.e., for each combination of simple conditions indicate which test “executes” this combination. Notice that there are 3 conditional statements with complex predicates.

Note: Sample test cases:

Test #1: a=54, b=72, c=25

Test #2: a=0, b=5, c=1