1)

Metrics that measure the complexity of the program. It measures the complexity based on linear independent paths.

Usage)

It make sure every path is tested.

Code coverage can be improved.

Reduce risk

2)

A picture containing text, indoor, vector graphics

Description automatically generated

Q3 )

Consider only table switch, decision if and lookupswitch

1. D + 1 = 1 + 1 = 2
2. D = 1 = 2 + 1 = 3
3. D + 1 = 3 + 1 = 4
4. D + 1 = 5 + 1 = 6

Q4)

When we consider setcurrentvalue(), in the bytecode we need to put two separate if conditions unlike source code. That’s why bytecode comeplexity gets higher value.

When we consider evaluateFormula() ,in the sourcecode we should take every cases in side the switch statement. But in the bytecode we don’t need to consider cases.