1.A diagram of a function

Description automatically generated

V(G)=6-4+2\*1=6-4+2=4

2.

A diagram of a graph

Description automatically generated

V(G)=1

Test Cases:

Input: A=5, B=3

Input 2: A=0,B=0

Input 3: A=-1, B=10

Input 4: A=100, B=-50

4 test cases are needed to cover all statements for this pseudocode.

3.

A diagram of a process

Description automatically generated

Test Cases

1

Input: 18

Expected endpoint: Process licence application

2

Input: 14

Expected endpoint: decline licence application.

Only 2 test cases are needed to cover all statements for this pseudocode.

4.  
A diagram of a flowchart

Description automatically generated

1

Input: 25

Expected endpoint: age is between 17 and 50

2

Input: 60

Expected endpoint: age is greater than 50

3

Input: 15

Expected endpoint: age is less than 17

4

Input: 50

Expected endpoint: error for this is not accounted for.

It takes 4 test cases to cover all statements for this pseudocode.

5.

A diagram of a program

Description automatically generated

Input: a=0, b=0

Expected endpoint: error for this is not accounted for.

Input: a=5, b=3

Expected endpoint: print “red”, 8

Input: a=-5, b=-4

Expected endpoint: print “blue”, -9

3 test cases are needed to cover all statements for this pseudocode.