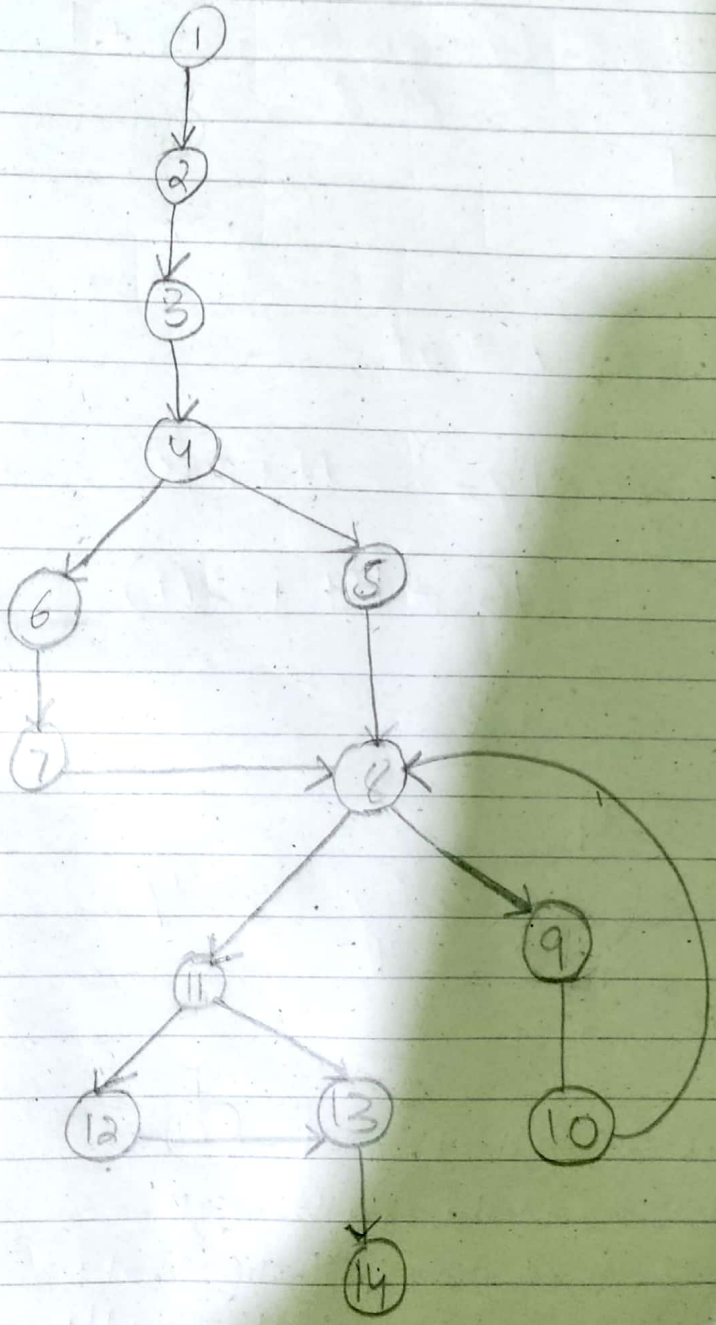
Software Engineering Assignment #2

a) (1) Control flow graph Method:



Nodes = 14 , Edges = 16

Cyclomatic Complexity = no of ~~decision points~~ regions + 1

= 4 + 1

= 5

Scanned with CamScanner

(2) ~~Cyclomatic~~ Using decision point method

Cyclomatic complexity = no of decision points + 1

= 3 + 1

= 4

(3) Using formula Method

Cyclomatic complexity = E − N + 2P

= 16 − 14 + 2(1)

= 2 + 2

= 4

(b) The cyclomatic complexity is 4

Independent paths:

1- 1→2→3→4→5→8→11→13→14

2- 1→2→3→4→5→8→9→10→8→11→13→14

3- 1→2→3→4→5→8→9→10→8→11→12→13→14

4- 1→2→3→4→6→7→8→9→10→11→12→13→14

Scanned with CamScanner

c)

Invalid Case	valid Case
Z is -ve	Z is +ve
Power is -ve	Power is +ve

Scanned with CamScanner