Q. Write a simple code for creating a login with username and password.

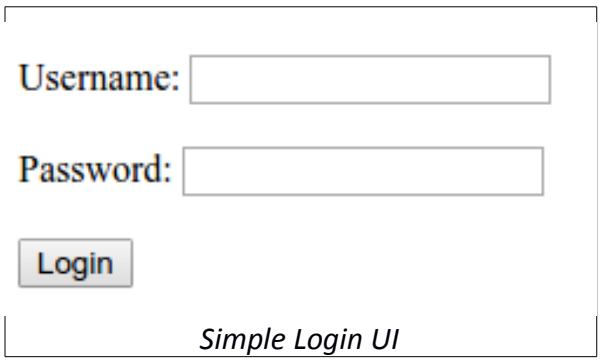
As soon as the password is correct it should display welcome note.

Prepare test cases for the following

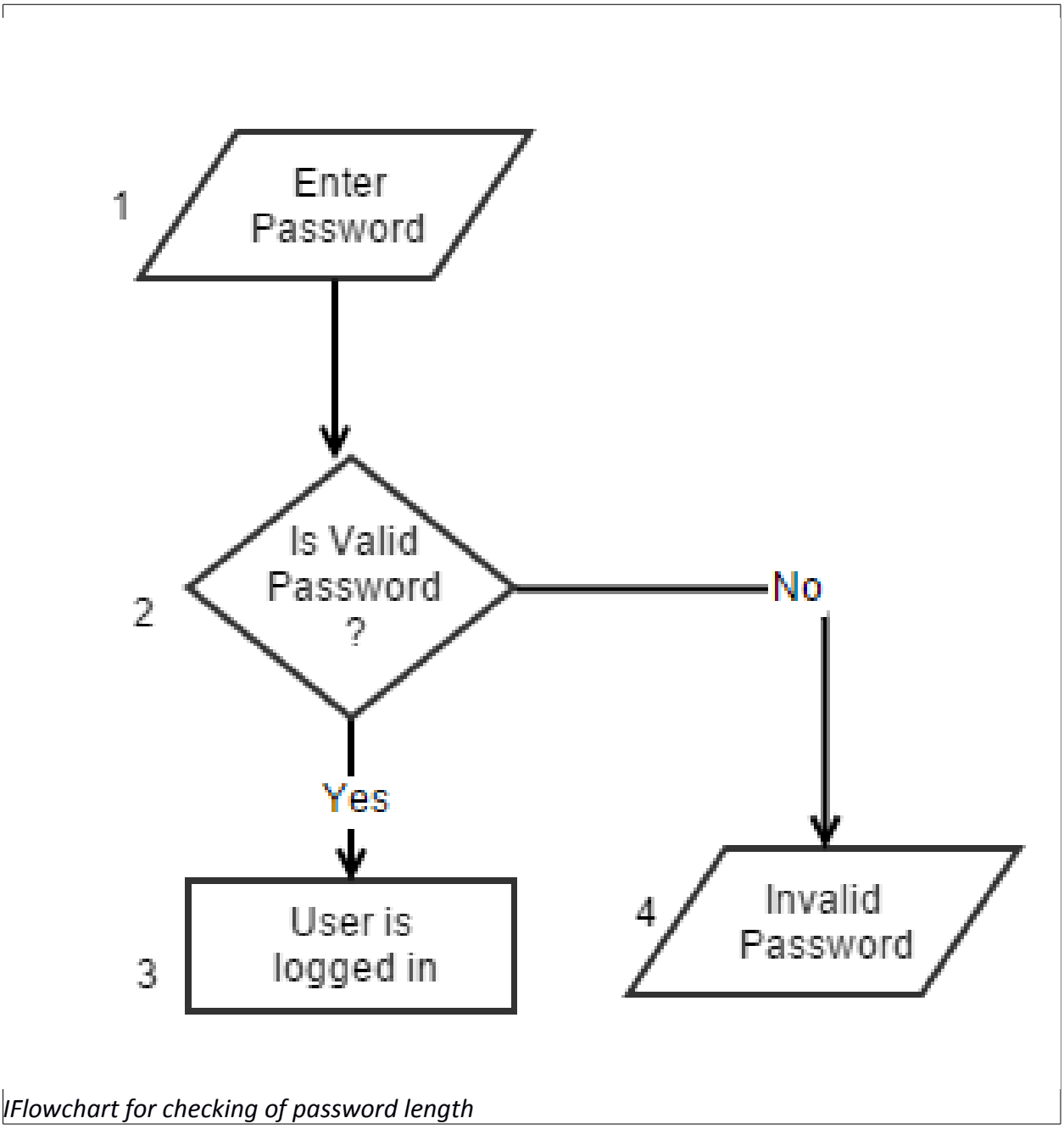
1. To test the password using Boundary Value Analysis, Equivalence Partitioning Method. Create domain constraints yourself.

2. Find the cyclomatic complexity of the code.

3. Calculate statement coverage and Branch Coverage



Simple Login UI



IFlowchart for checking of password length

Boundary Value Analysis (Domain 6 – 12)	
Password Length	Valid
5	FALSE
7	TRUE
9	TRUE
11	TRUE
13	FALSE

Equivalence Partitioning Method (Domain 6 – 12)	
Password Length	Valid
5	FALSE
9	TRUE
13	FALSE

Cyclomatic Complexity Calculation:

Edge (E):	3
Node (N):	4
Exit Points (P):	2
Cyclomatic Complexity (V=E-N+P):	1

Test Cases:

S.N	Test cases	Statement Covered	Branch Covered
a	1—2—3	3	1
b	1—2—4	3	1

Statement Coverage Calculation:

Total Statement = 4

Test Case	Statement Coverage
a	75.00
b	75.00

Branch Coverage Calculation:

Total Branch = 2

Test Case	Branch Coverage
a	50
b	50