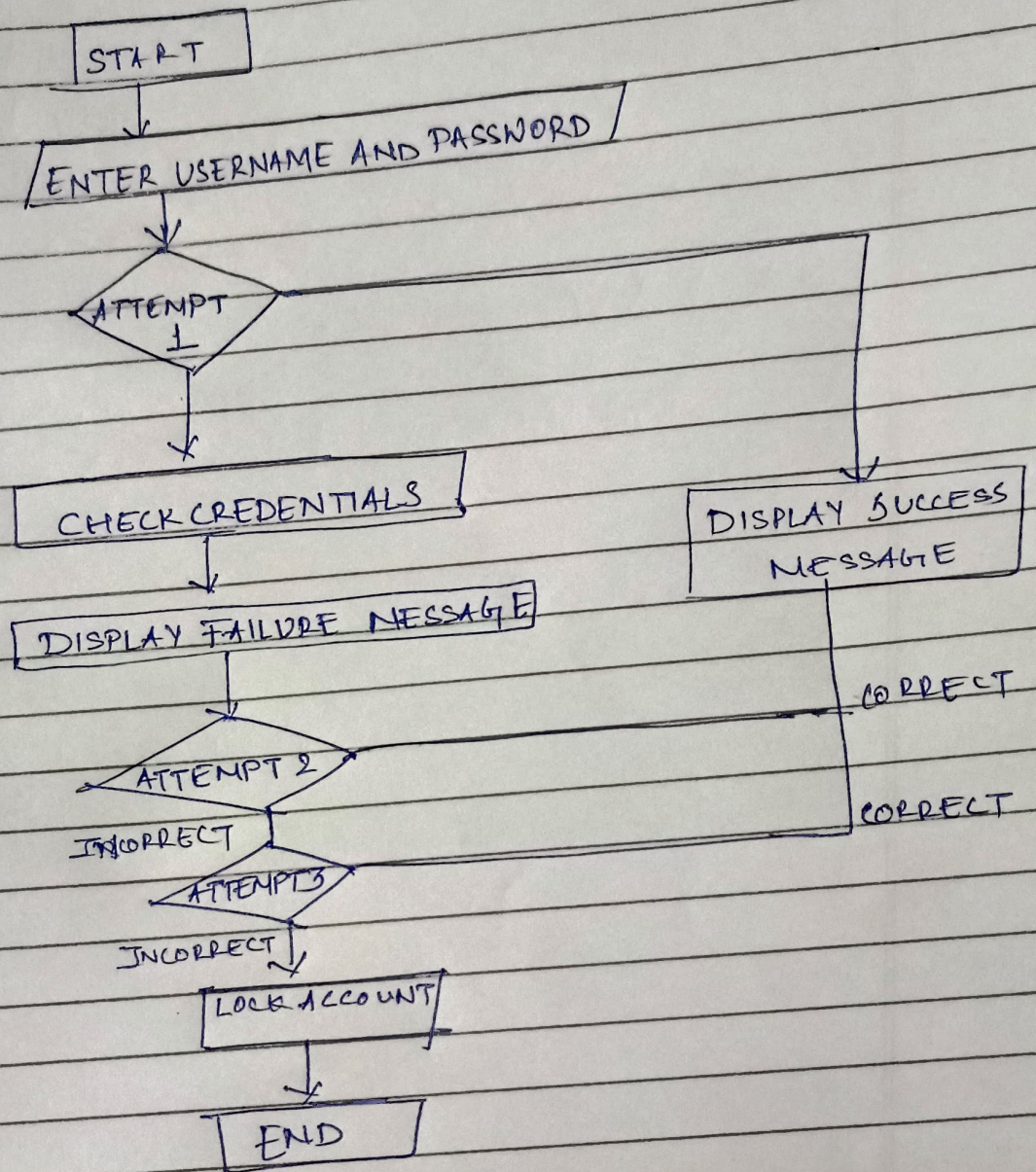


## ASSIGNMENT-1.

- 1  $\rightarrow$  Prompt user to enter a no. and store it in 'number'
- 2  $\rightarrow$  Read 'number' from the user.
- 3  $\rightarrow$  If 'number' is even, then:
  - 3.1  $\rightarrow$  calculate the square of 'number' & store it in 'result'.
  - 3.2  $\rightarrow$  Display 'result'.
- 4  $\rightarrow$  Otherwise (if 'number' is odd), then:
  - 4.1  $\rightarrow$  calculate the cube of 'number' & store it in 'result'.
  - 4.2  $\rightarrow$  Display 'result'.
- 5  $\rightarrow$  Prompt the user if they want to continue.
- 6  $\rightarrow$  If yes, repeat steps 1-5.
- 7  $\rightarrow$  If no, End the program.



## ASSIGNMENT 2.



## ASSIGNMENT 03

Modularity in programming :- it is concept of breaking down a program into smaller, independent and reusable modules or functions. It helps with code reuse and organization in several ways.

- Code Reusability
- Organization
- Debugging & Testing
- Collaboration.



## Assignment - Q3

Factorial :-

function factorial (number)

if number  $\leq 0$

return 1

else

result = 1

for i from 1 to number

result = result \* i

return result

Q4  
Fibonacci :- Each number is the sum of the two previous ones

function fibonacci (n)

if  $n == 0$

return 0

else if  $n == 1$

return 1

else

fib = [0, 1]

for i from 2 to n

fib[i] = fib[i-1] + fib[i-2]

return fib[n]