DAY 1 – EXERCISE – ASSIGNMENT – SAI SYED

ASSISGNMENT 1 :- Write a detailed pseudocode for a simple program that takes a number as input, calculates the square if it’s even or cube if it’s odd, then output the result .incorporate conditional and looping constructs

start

accept number as a input

if number%2==0

Print ( ‘even’+ number \* number );

else

Print (‘odd’+ number\*number\*number);

end

ASSISGNMENT 3 :- Function Design and Modularzation - Create a document that describe the design of two modular functions: one that returns the factoral of a number, and another that calculates the nth Fibonacci number Include pseudocode and a brief explanation of how modulanty in programming helps with code reuse and organisation

Factorial

start

accept the number as input

fact = 1

for (i=1 ; i<=number ; i++)

fact = fact\*i;

end

fibonacci

start

accept n1 = 1

accept n2 = 2

accept n = 3

for (i = 1 ;i<=n ; i++) \\ for i range from 1 to n

n3 = n1 + n2

n1 = n2

n2 = n3

End

ASSISGNMENT 2 :- Design a flowch art that outlines the logic for a user login process. it should include conditional paths for successful and unsuccessful login attempts, and a loop that allows a user three attempts before locking the account.

