Fibnocci series

$F_n = F_{n-1} + F_{n-2}$ (1)

where $n > 1$

fibnocci series is computed by the addition of two previous numbers from the current number;
from the equation —–(1)
we can write the intervals for n;
$0 \leqslant n \leqslant 1$
$F_0 = 0$
$F_1 = 1$
from the eqn ——(1) we say that the starting term in the series is F_0

$F_{n+1} = F_n + F_{n-1}$ (2)

from the equation .....(2) it is known that the starting term in the fibnocci series is F_1 from the eqn (2) in the LHS F_{n+1} ; n is added with some constant c; where c=1; so the starting sequence is F_1
gate question solution
$F_{n+1} = F_n + F_{n-1}$
$F_6 = 37$
$F_7 = 60$
$F_1 =?$
solution: the terms in the fibnocci series are:
$F_1, F_2, F_3, F_4, F_5, F_6, F_7$
the terms in the fibnocci series are plotted only on the +ve x-axis scale; from[0 to n] as n increases the point from the origin of the x-axis also increases; e.g: for n+1 the terms will be in range [1 to n+1] similarly for n+2 ; the value will be incremented to 2 from origin i,e 0; so the range of terms will be [2 to n+2]
Note: Fibnocci series will have (n+1) terms
(n+1)th term will hold the summation of all [0 to n] terms for the equation (1)
for equation (2)..$F_{n+1} = F_n + F_{n-1}$
n=n+1; therefore, 0 is moved to so that the series contain exactly (n+1) terms

$F_1 = 4, F_2 = 5$; initialization of the first two terms;
$F_{n+1} = F_n + F_{n-1}$
$F_{2+1} = F_2 + F_{2-1}$
$F_3 = 4 + 5 = 9$
$F_4 = 14$
$F_5 = 23$
$F_6 = 37$
$F_7 = 60$