1.Find student average mark given Mark1 and Mark2.

Step-1:Start

Step-2:Declare values Mark1,Mark2 and Average.

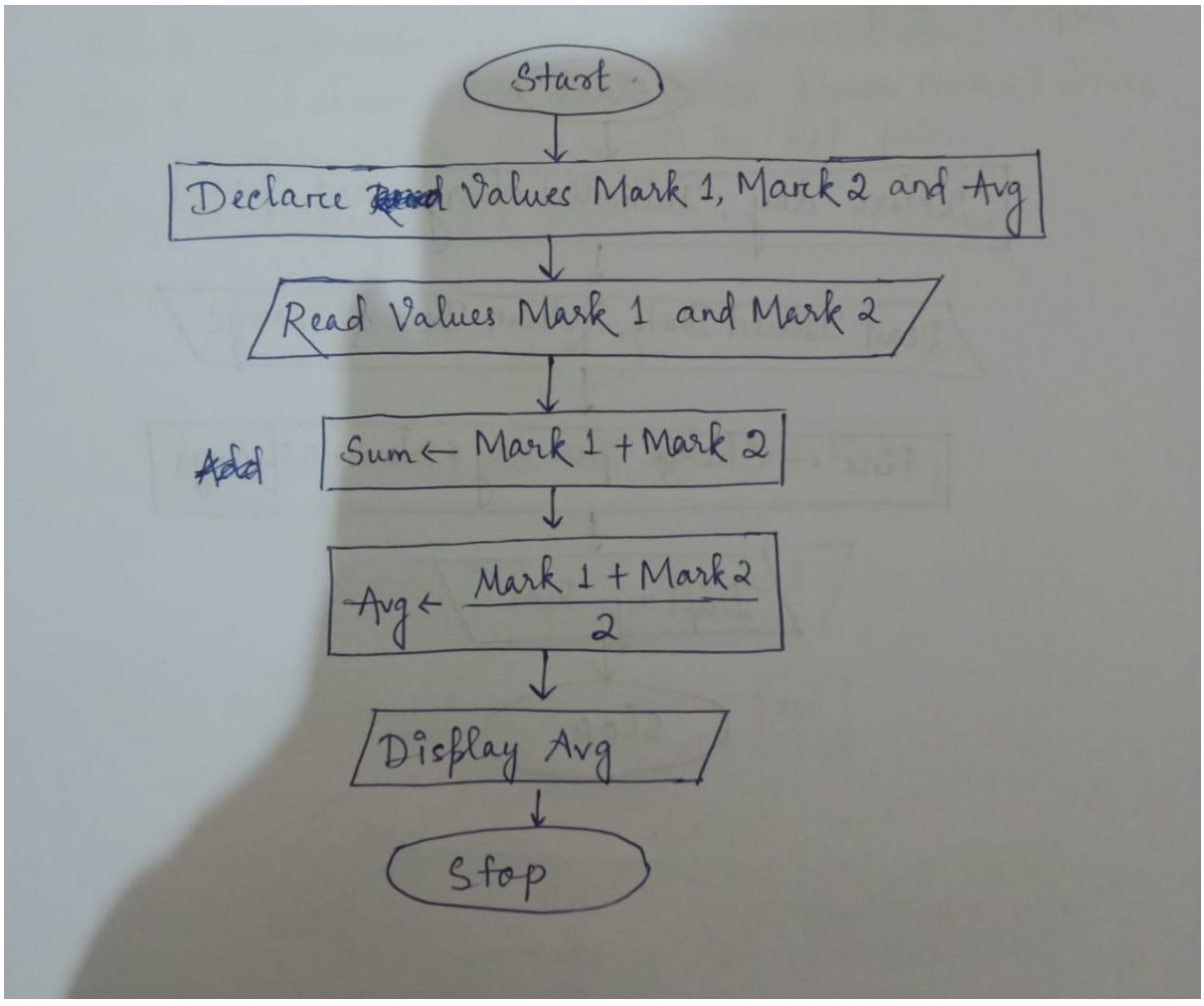
Step-3:Read values Mark1 and Mark2.

Step-4:Add Mark1 and Mark2 and find sum.

Step-5:Divide the sum by 2 and assign the result in avg.

avg←(Mark1+Mark2)/2

Step-6:Stop



2.Calculate the total fine charged by library for late return books.The charge is 0.20 INR for 1day.

Step-1:Start

Step-2:Declare Day,Initialize charge and Fine.

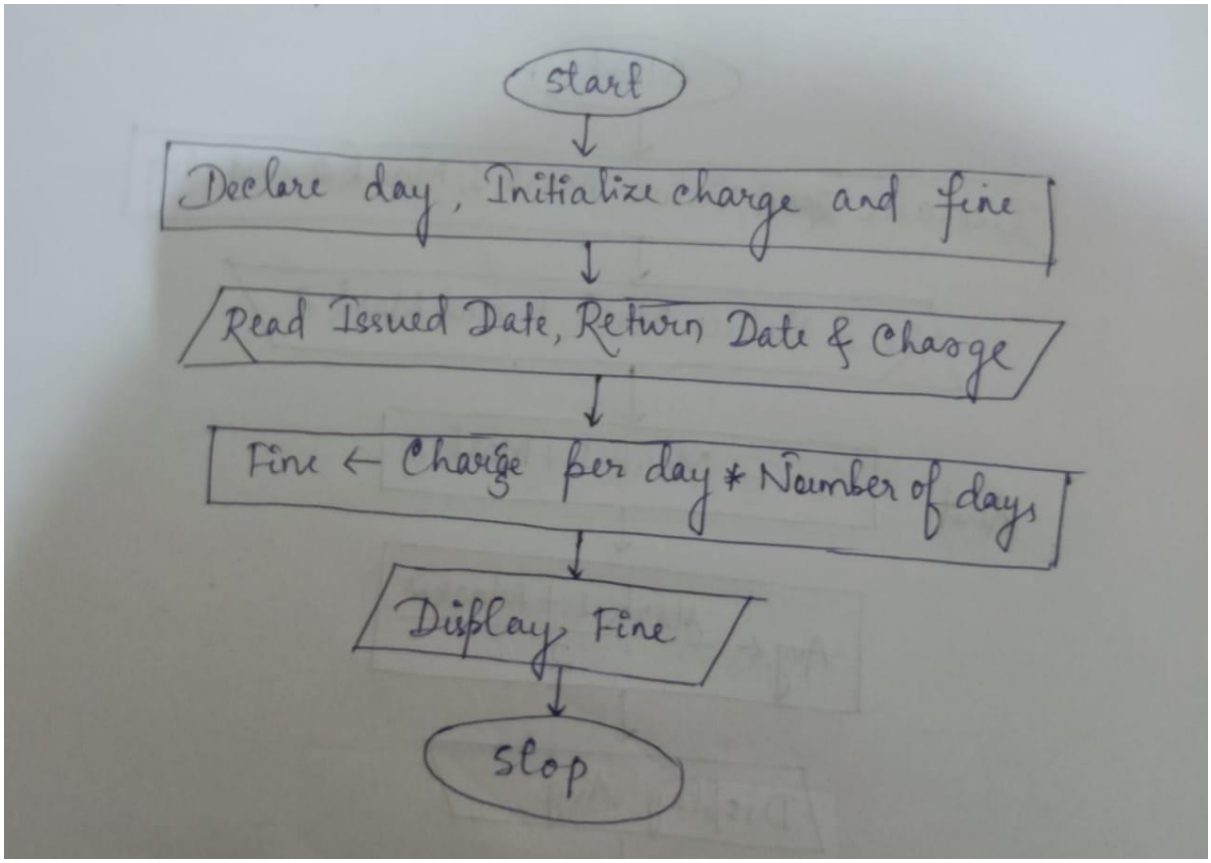
Step-3:Read Issued date,Return date and Charge.

Step-4:Multiply the charge per day and number of days.

Fine←Charge per day *Number of days.

Step-5:Display Fine.

Step-6:Stop.



3.You had bought a nice shirt which cost is Rs.29.90 with 15% discount.Count the net price for the shirt.

Step-1:Start

Step-2:Declare cost price,discount and net price.

Step-3:Read cost price and discount.

Step-4:Multiply the discount and cost price and find the discount price.

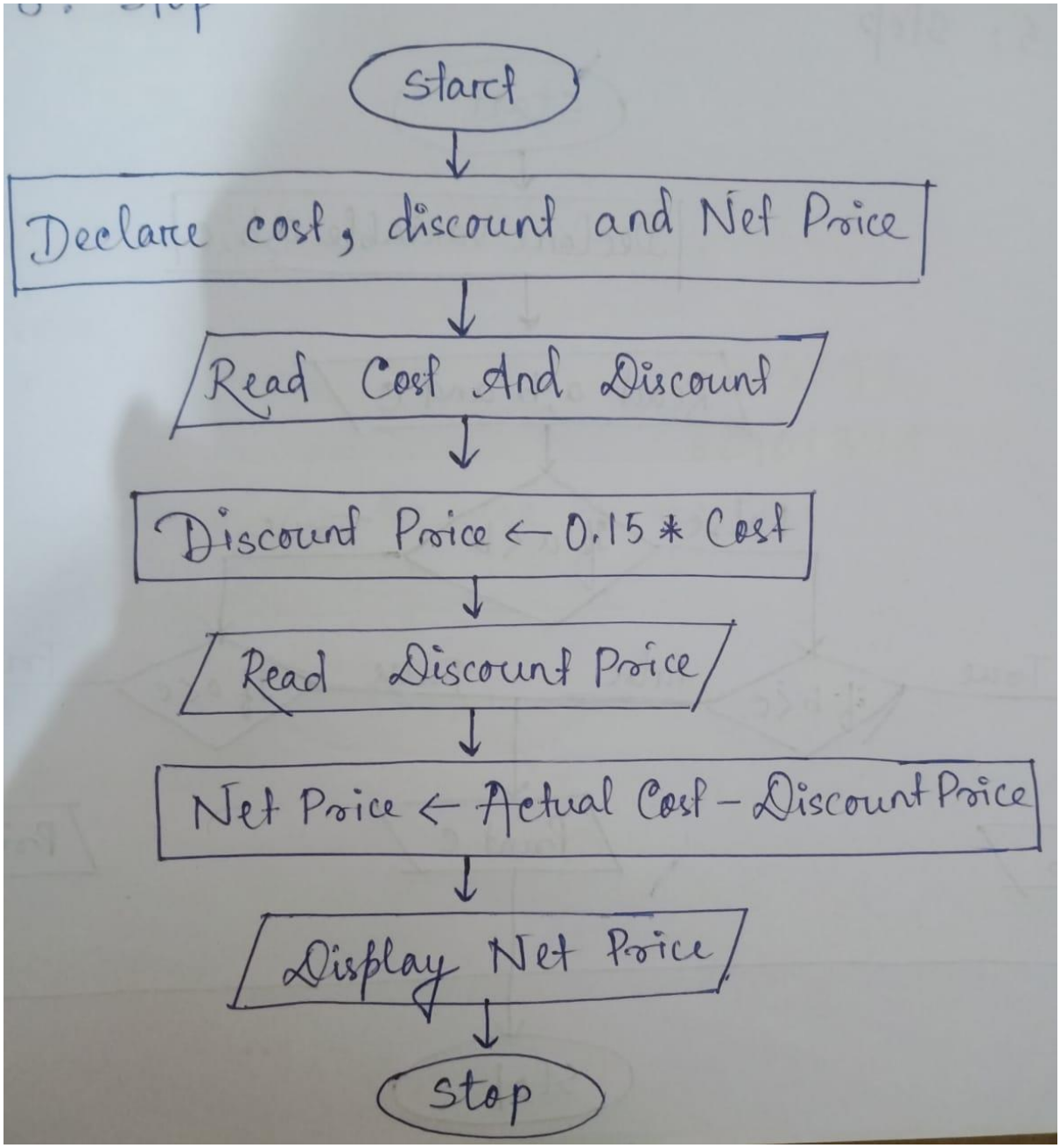
Discount price ←0.15*cost

Step-5:Read discount price.

Step-6:Substract discount price from cost price and assign the result in the net price.

Step-7:Display Net price.

Step-8:Stop.


Start
Declare cost, discount and Net Price
Read Cost And Discount
Discount Price ← 0.15 * Cost
Read Discount Price
Net Price ← Actual Cost - Discount Price
Display Net Price
Stop

4.Find the smallest number among three different numbers.

Step-1:Start.

Step-2:Declare 3 variables a,b and c.

Step-3:Read variables a,b and c.

Step-4:if a<b

If a<c

Display ‘a’ is the smallest number.

Else

Display ‘c’ is the smallest number.

Else

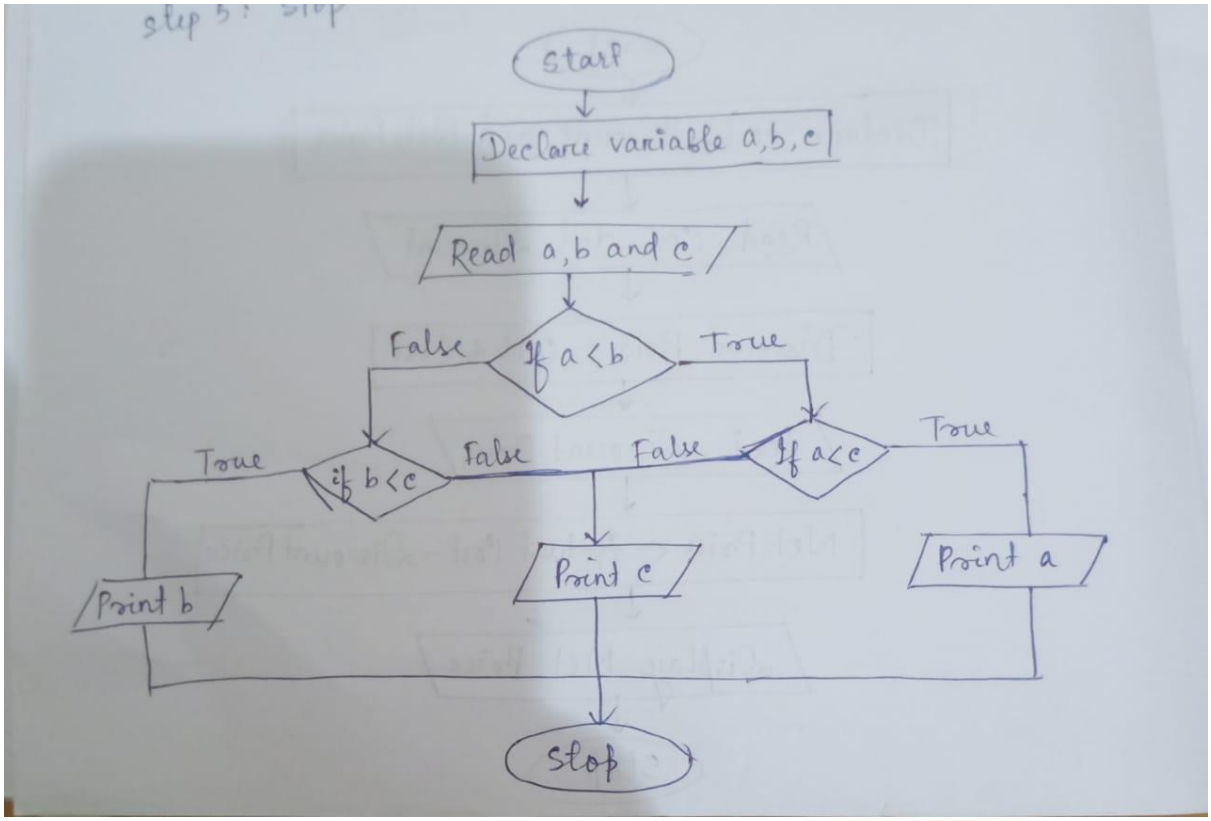
If b<c

Display ‘b’ is the smallest number.

Else

Display ‘c’ is the smallest number.

Step-5:Stop.




5.Find the roots of a quadratic equation $ax^2+bx+c=0$.

Step-1:Start

Step-2:Declare the variables a,b,c.

Step-3:Read the variables a,b,c.

Step-4:Find the value of D using the formula

D←sqrt(b*b-4*a*c)

Step-5:If D is greater than or equal to zero find 2 roots

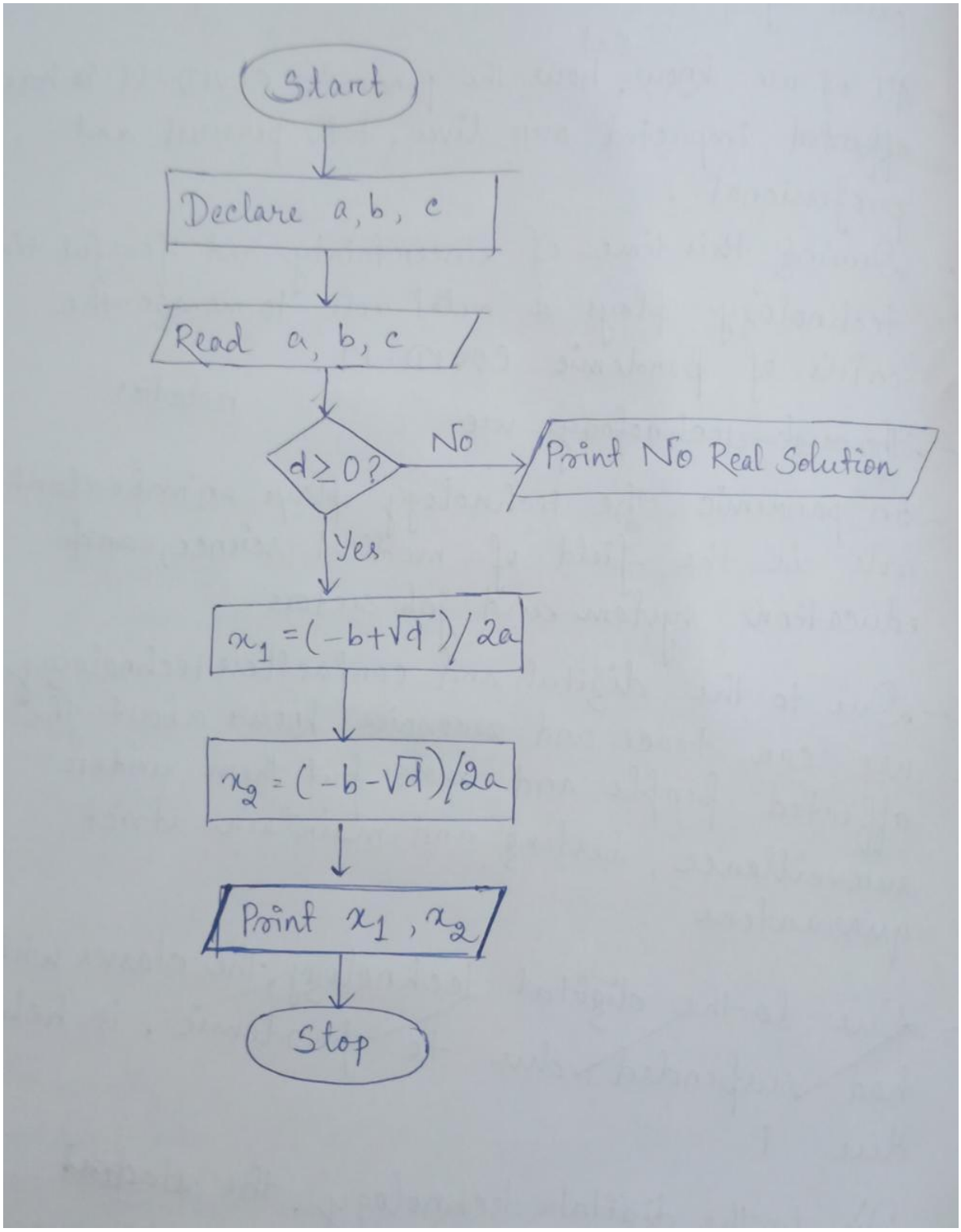
X1←(-b+sqrt(d)/(2*a))

X2←(-b-sqrt(d)/(2*a))

Step-6:Display x1,x2.

Step-7:If D is less than zero,then print No real solution.

Step-8:Stop




6.Find the factorial of a given number.

Step-1:Start

Step-2:Declare the variable i,fact,num

Step-3:Read the value of num

Step-4:Initialize counter variable i to 1 fact to 1

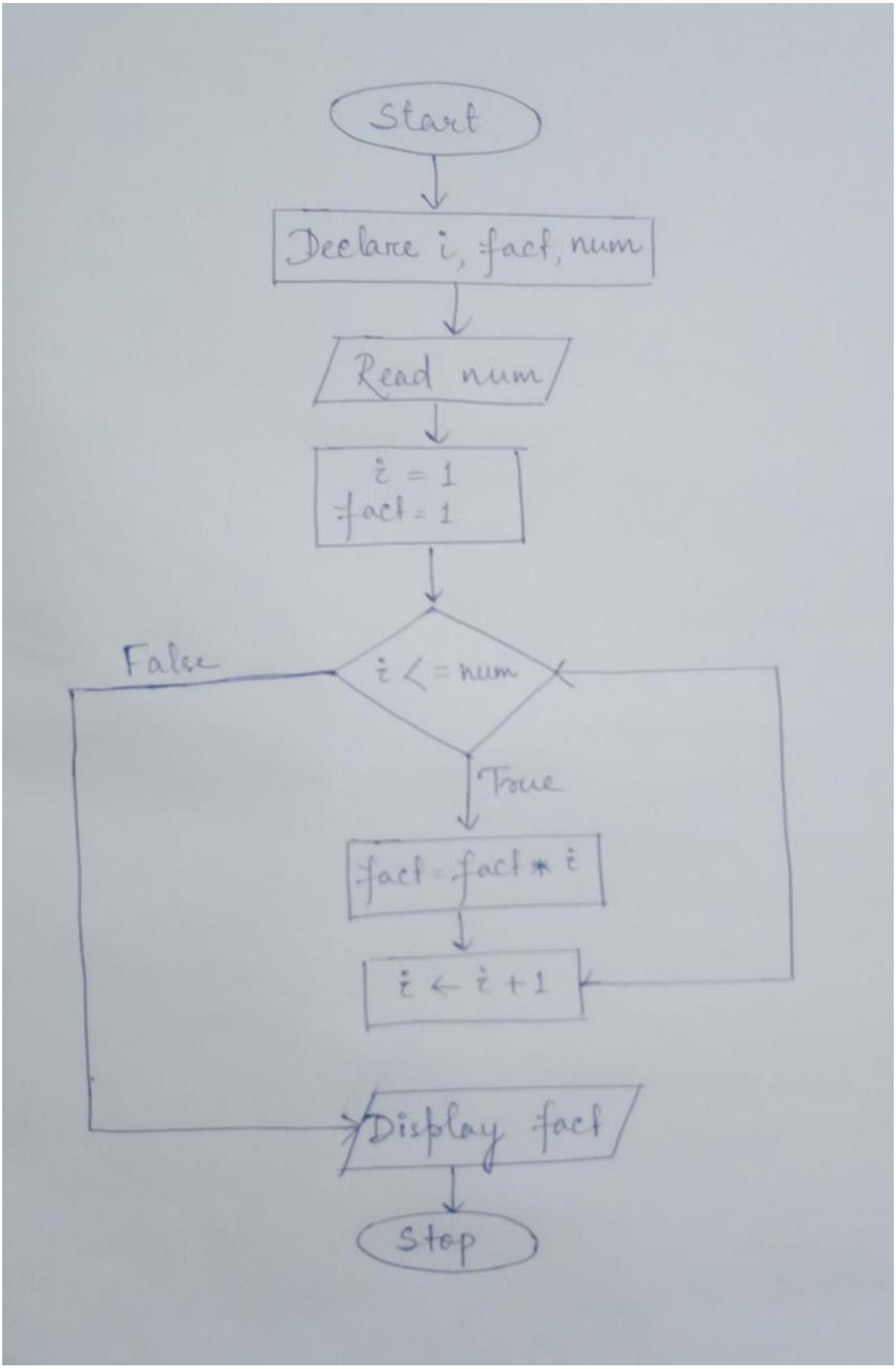
Step-5:if i<=num go to step 6 otherwise goto step-7

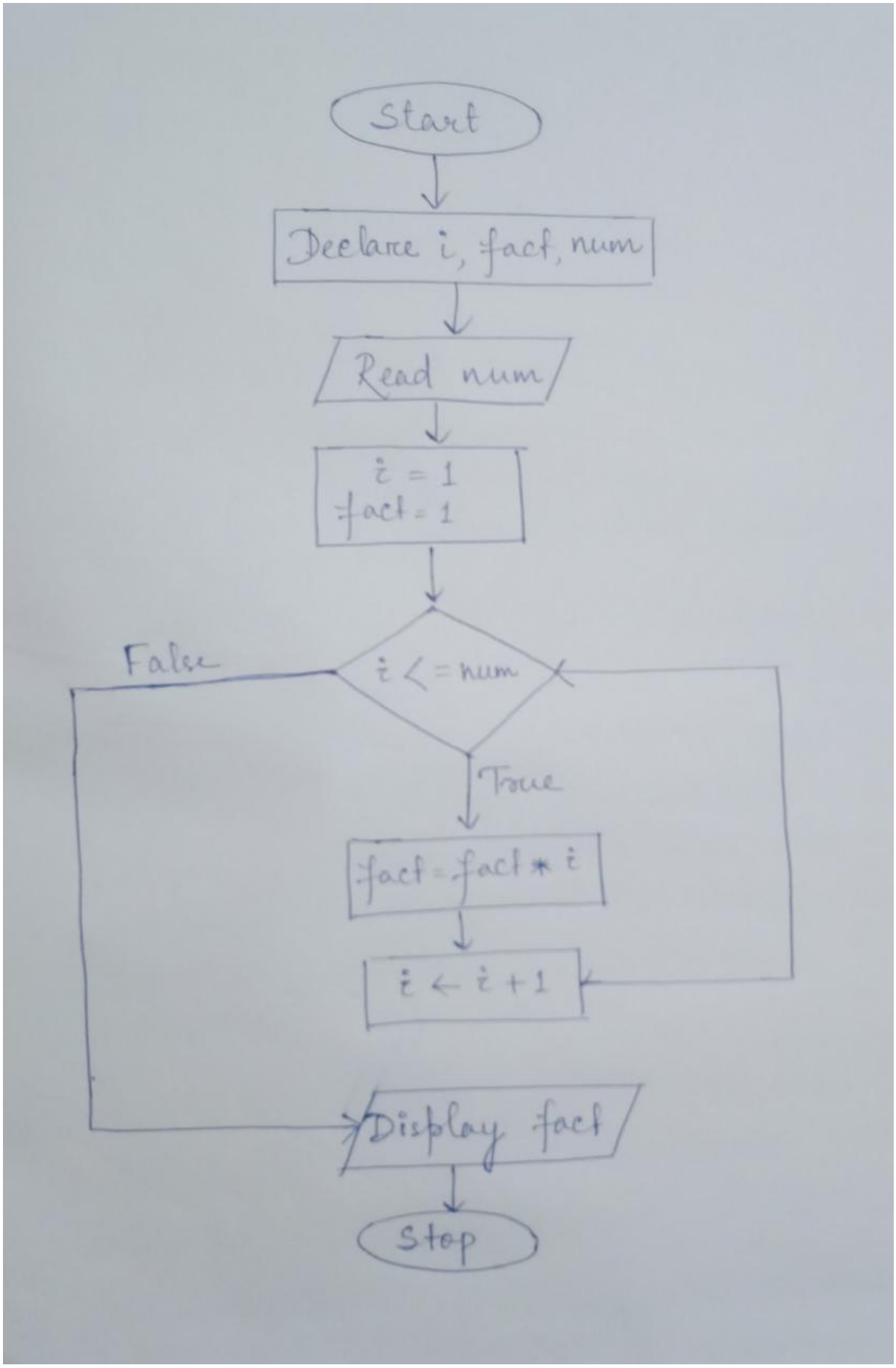
Step-6:fact←fact*i

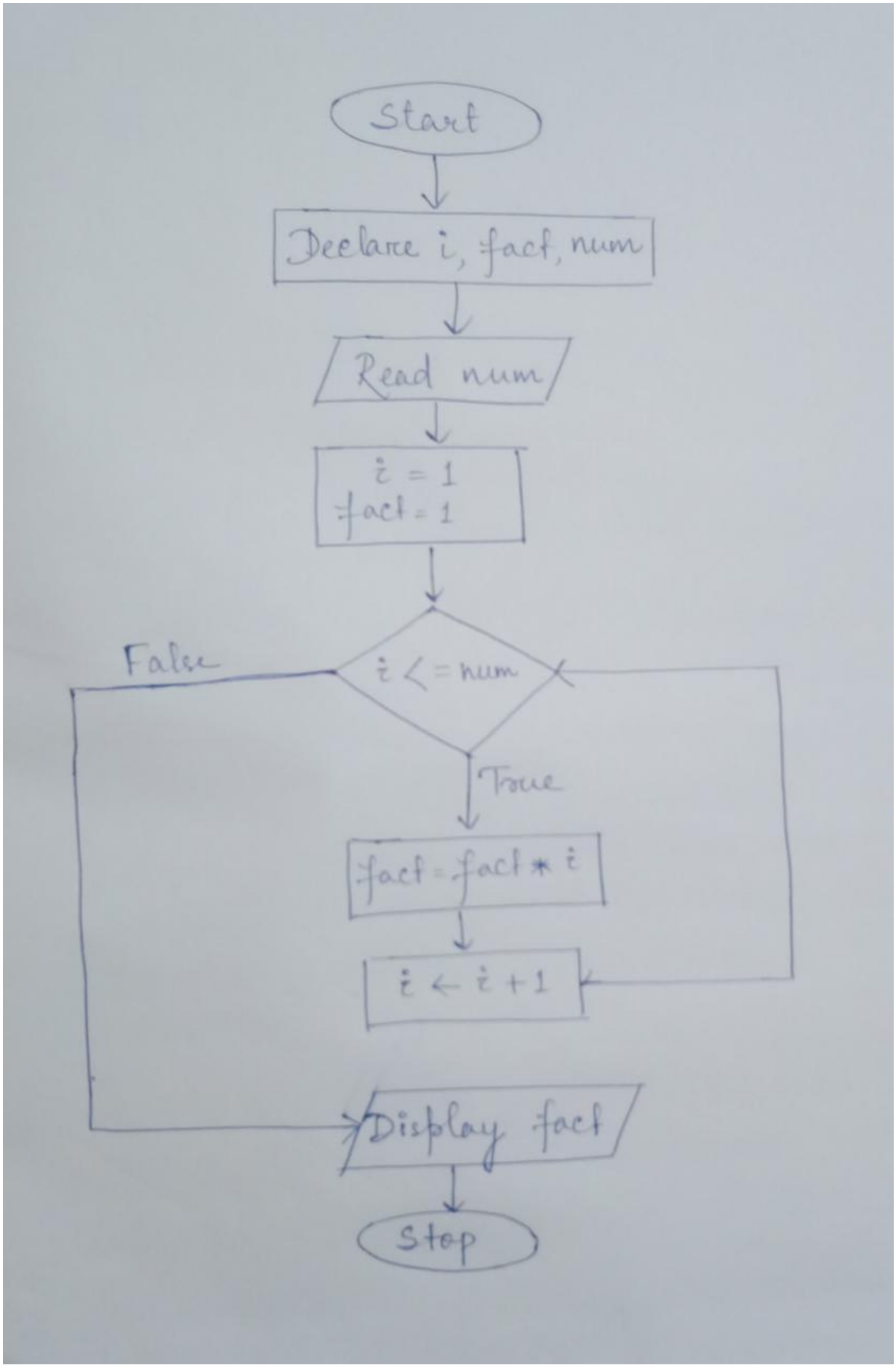
Step-7:Increment counter variable i and go to step-5

Step-8:Display fact

Step-9:Stop


Start
Declare i, fact, num
Read num
i = 1
fact = 1
i <= num
False
True
fact = fact * i
i ← i + 1
Display fact
Stop


Start
Declare i, fact, num
Read num
i = 1
fact = 1
i <= num
False
True
fact = fact * i
i ← i + 1
Display fact
Stop


Start
Declare i, fact, num
Read num
i = 1
fact = 1
i <= num
False
True
fact = fact * i
i ← i + 1
Display fact
Stop