(1)Find a student average mark given mark1 and mark2.

Algorithm:-

(a) Start
(b) Declare 3 variable named a,b and result
(c) Assign mark1 and mark2 to the variable a and b respectively.
(d) result ⟵ (a+b)/2
(e) Display result
(f) Stop

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

Algorithm:-

(a)start

(b)declare 2 variable named x and y

(c) now ask to user how many days that you have taken to return the book and now assign the inputted days to the variable x.

(d)fine ⟵ x X 0.20

(e) Display the value of the variable fine

(f)stop

(3)You had bought anice shirt which cost 29.90 with 15% discount. Count the net price for the shirt.

Algorithm:-

(a) Start
(b) Declare two variable named x and y. Assign 29.90 TO the variable x.
(c) y ⟵ 29.90 x 100/85
(d) Display y
(e) Stop

(4)find the smallest number among 3 different numbers.

Algorithm:-

(a) Start

(b) Declare variable a,b &c
(c) Read variable a,b &c
(d) 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

(5)Find the roots of a quadratic equation.

Algorithm:-

(a)start

(b)input a,b,c

(c)d ⟵ sqrt(b X b - 4 X a X c)

(d)x1 ⟵ (-b +d)/(2 X a)

(e) x2 ⟵ (-b +d)/(2 X a)

(f)print x1,x2

(g) stop

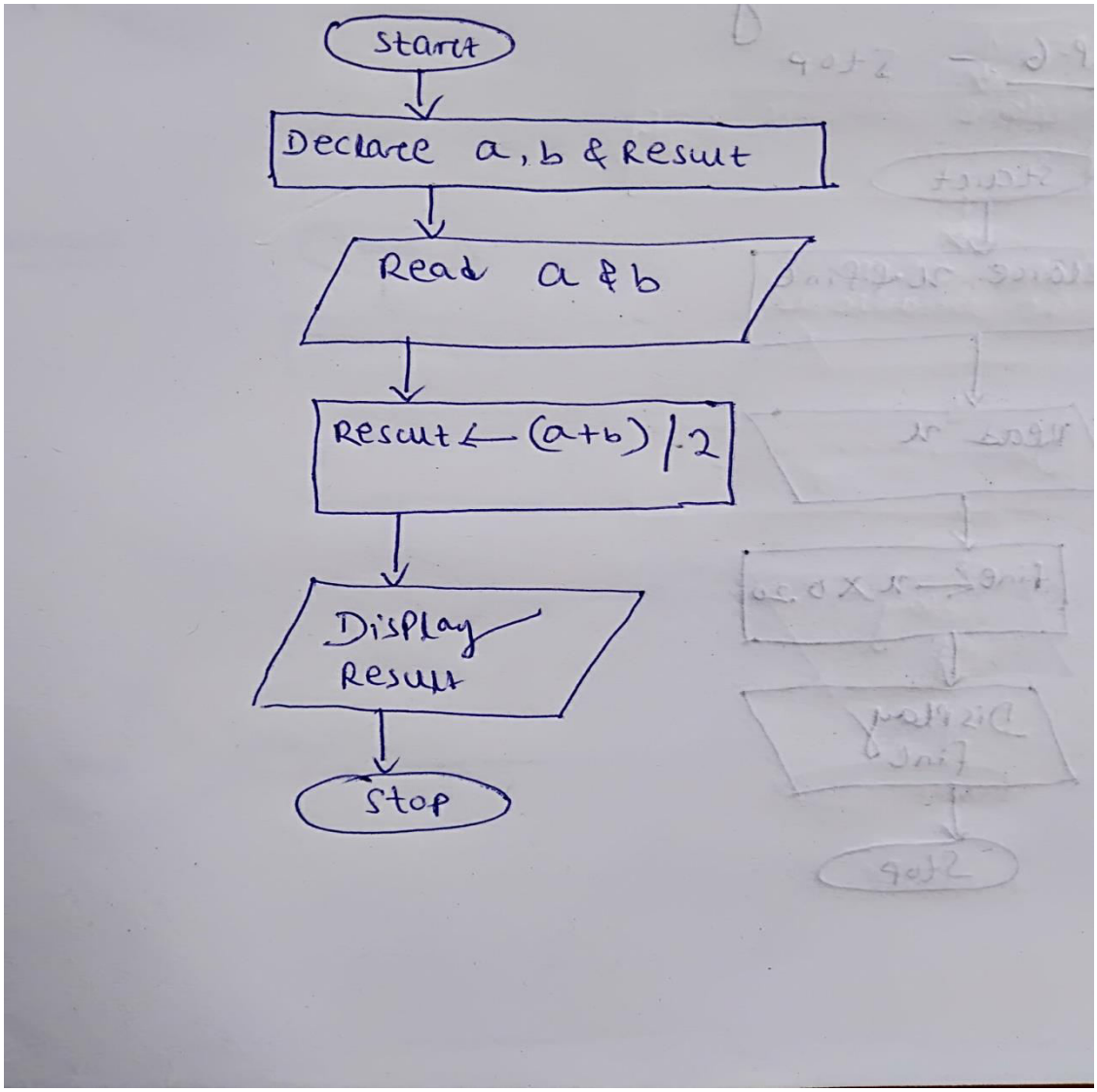
(6)Find the factorial of a given number.

Algorithm :-

(a) Start
(b) Read name n
(c) Initialize the variable i and fact with the value 1.
(d) Repeat step 4 through step 6 untill i=n .
(e) Fact=fact X i
(f) i=i+1
(g) print fact
(h) stop

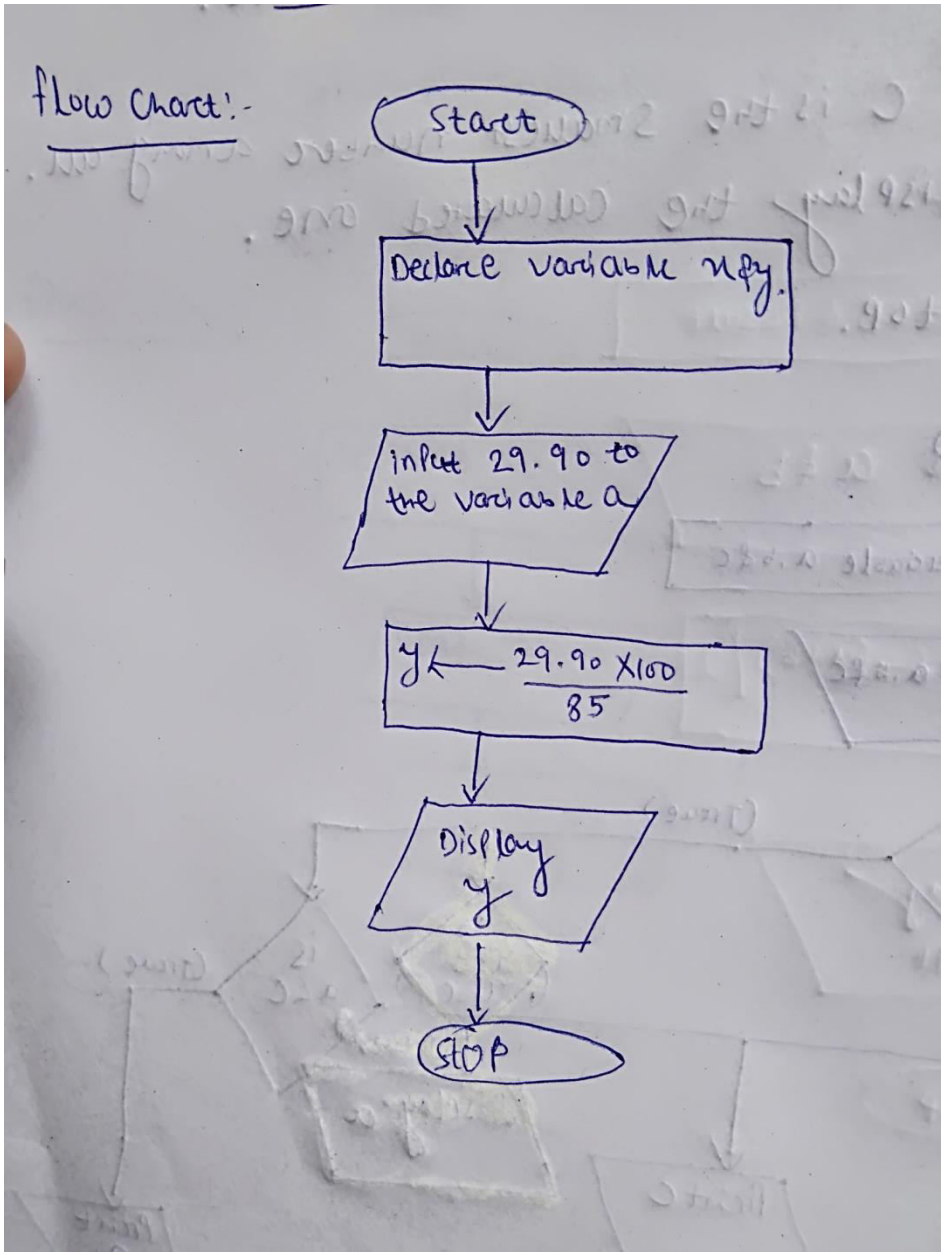
FLOW CHART

(1)


Start
Declare a, b & Result
Read a & b
Result ← (a+b) / 2
Display Result
Stop

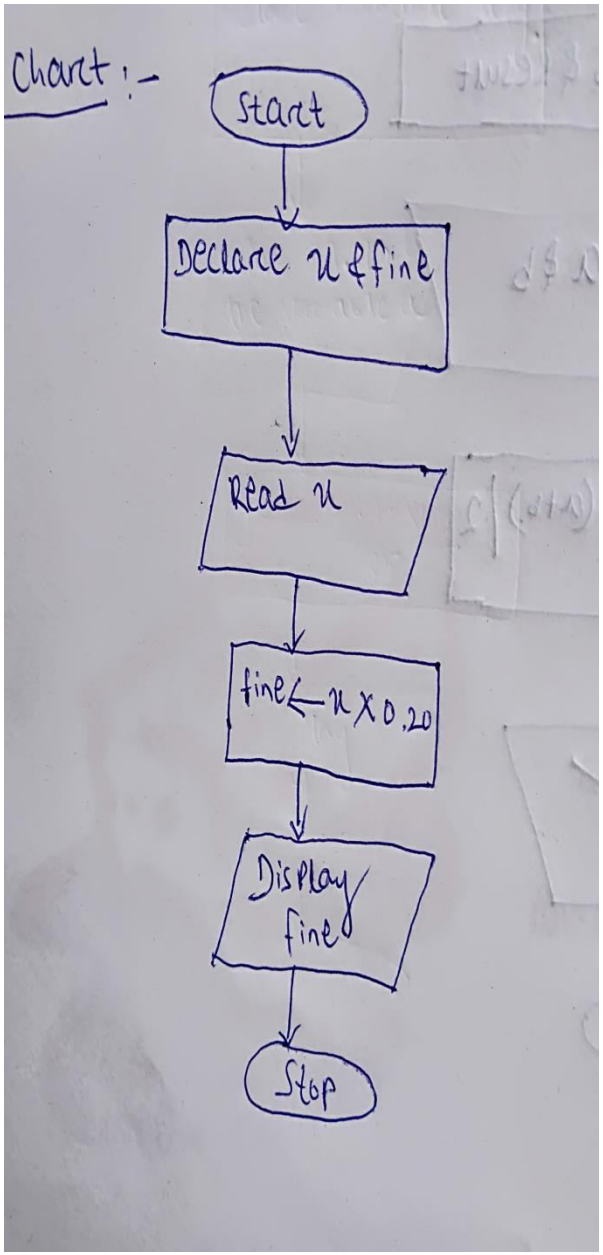
(2)

flow Chart:-

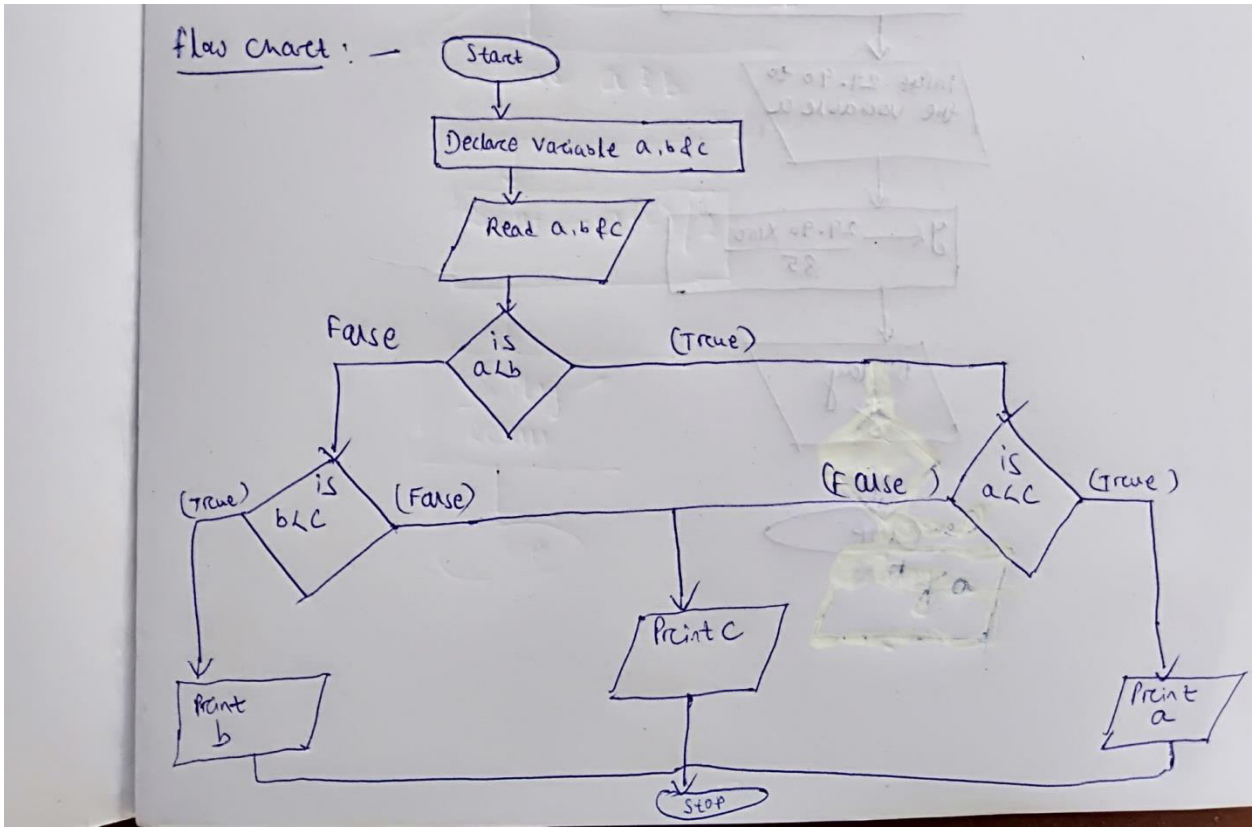


(3)

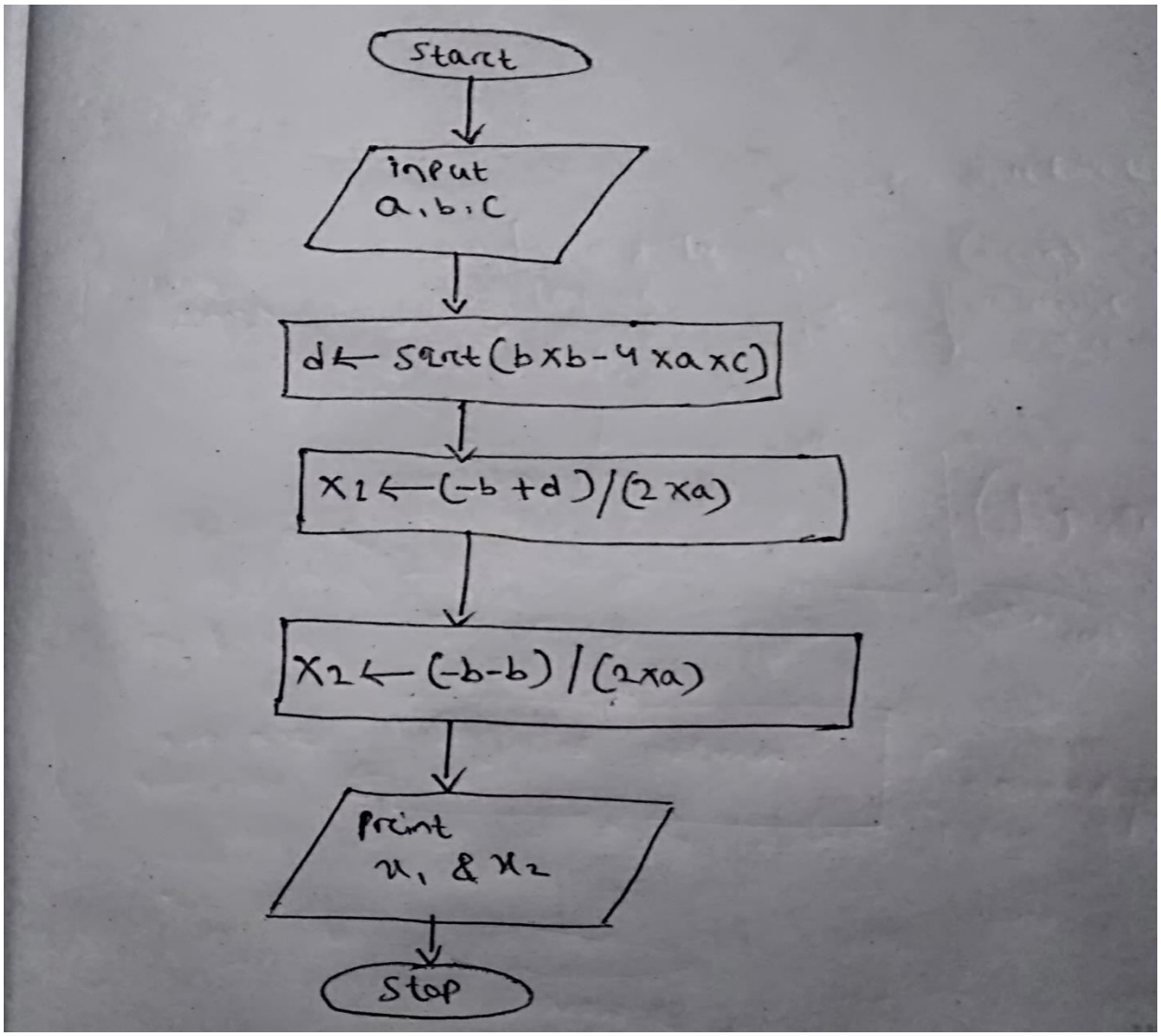
Chart:-



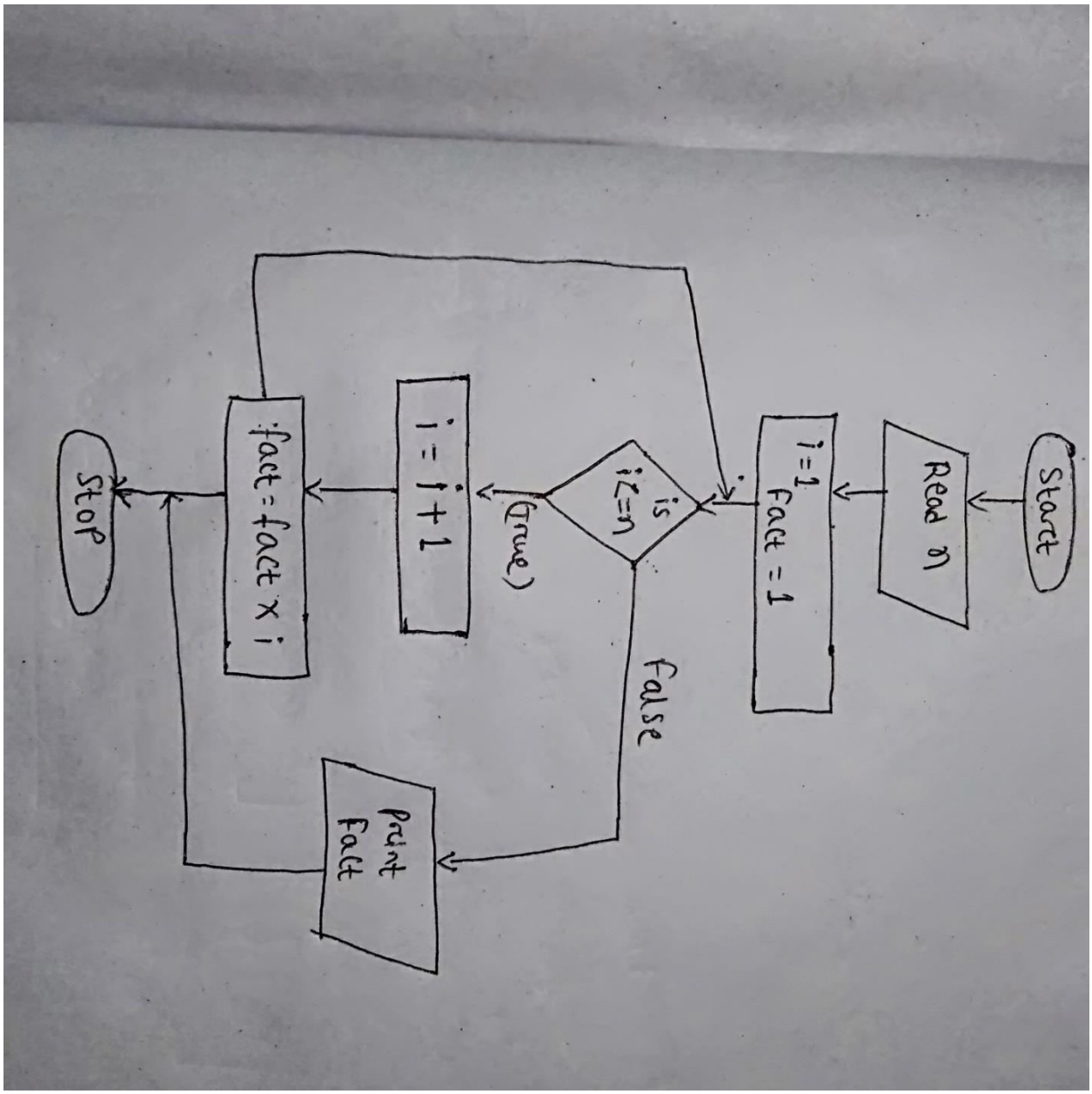
(4)


flow chart :-
Start
Declare variable a,b & c
Read a,b & c
is a<b
False
(True)
is b<c
(True)
(False)
(False)
is a<c
(True)
Print b
Print c
Print a
Stop

(5)


Start
input
a, b, c
d ← sqrt(b x b - 4 x a x c)
x1 ← (-b + d) / (2 x a)
x2 ← (-b - b) / (2 x a)
Print
x1 & x2
Stop

(6)


Start
Read n
i=1
fact = 1
is
i<=n
(True)
False
i = i + 1
fact = fact x i
Print
Fact
Stop

END