

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

Step 1: Start

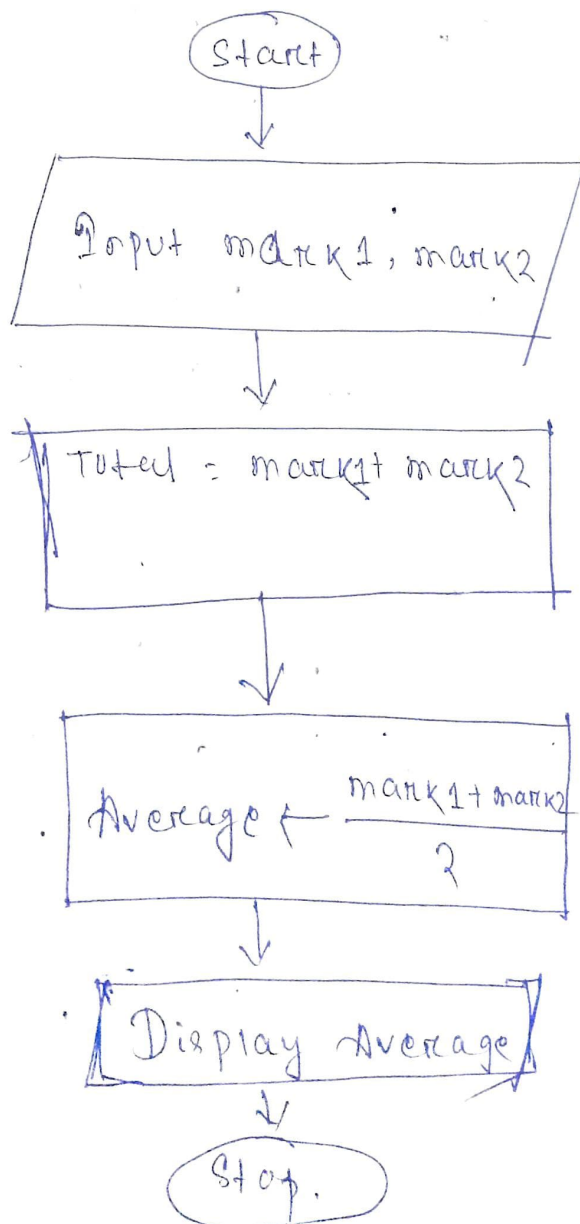
Step 2: declare mark₁, mark₂ and average

Step 3: Read values mark₁ and mark₂

Step 4: add mark₁ and mark₂ and divide by 2 and assign the result to average.
$$\text{average} \leftarrow (\text{mark}_1 + \text{mark}_2) / 2$$

Step 5: display average.

Step 6: Stop.



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

Step 1 : Start

Step 2 : Declare variable first date, last date, charges.

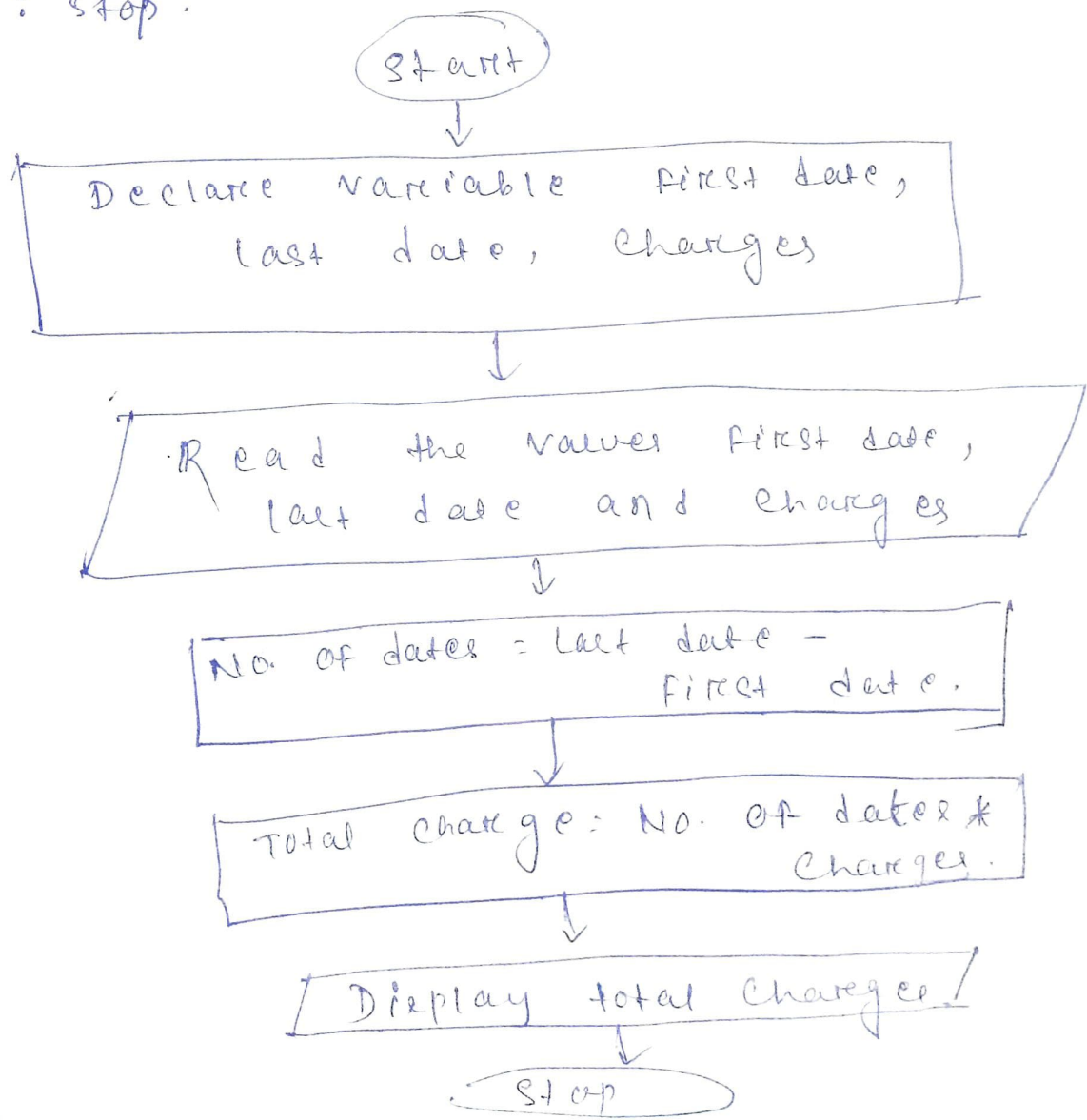
Step 3 : Read the values first date, last date and charges.

Step 4 : No. of dates = last date - first date -

Step 5 : Total charge = no. of dates * charges.

Step 6 : Display total charges.

Step 7 : Stop.



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

Step 1: Start

Step 2: Declare variable CP, dis and Net price

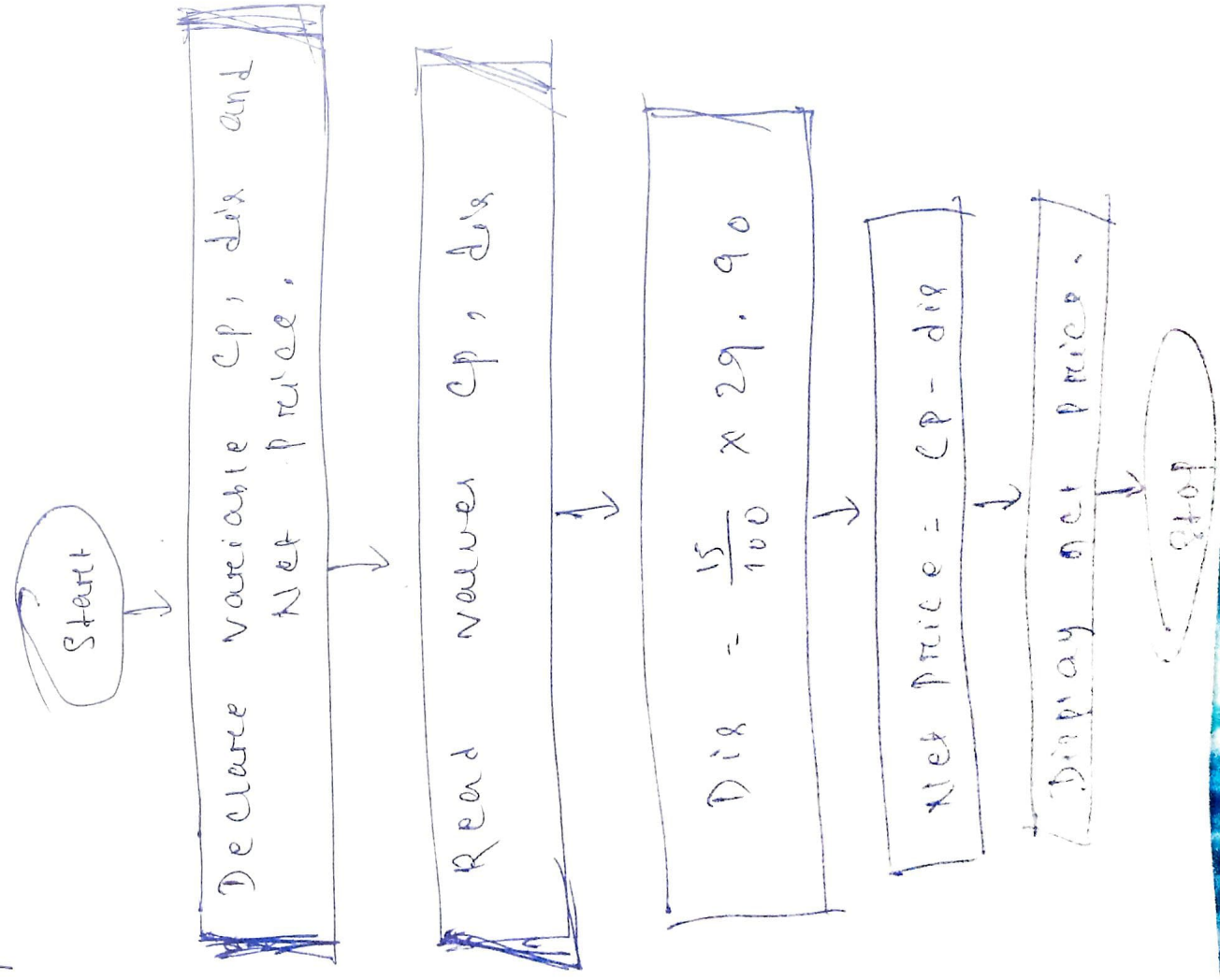
Step 3: Read values CP, dis

Step 4: $Dis = \frac{15}{100} \times 29.90$

Step 5: Net price = CP - Dis.

Step 6: Display Net price.

Step 7: Stop.



(4) Find the Smallest number among 3 different numbers.

Step 1: Start.

Step 2: Declare 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 ~~the~~ Smallest number.

Else

Display c is the smallest number.

Else

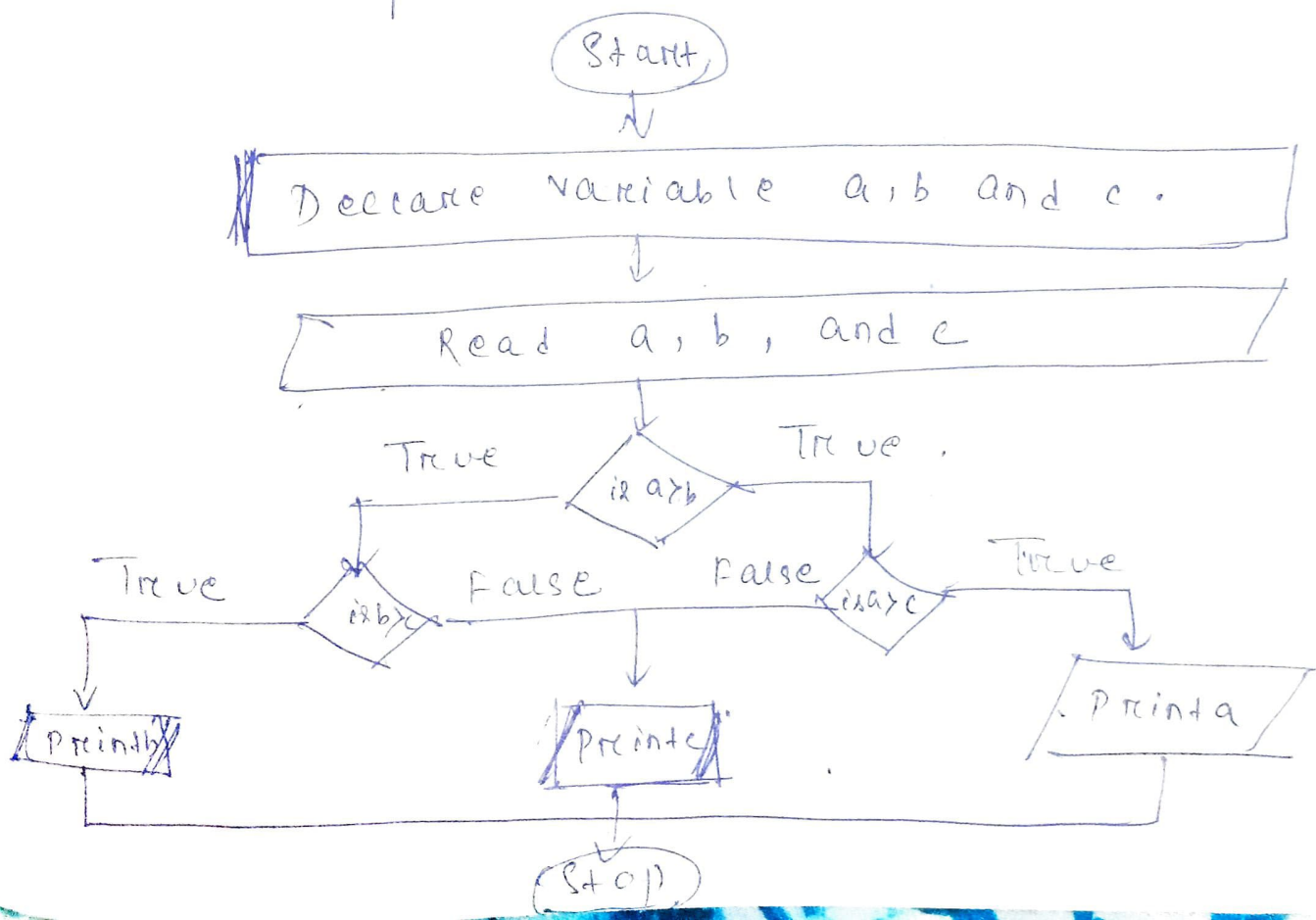
IF $b < c$

Display b is the Smallest number.

Else

Display c is the ~~the~~ Smallest number.

Step 5: Stop.



(5) Find the roots of a quadratic eqⁿ ax^2+bx+c

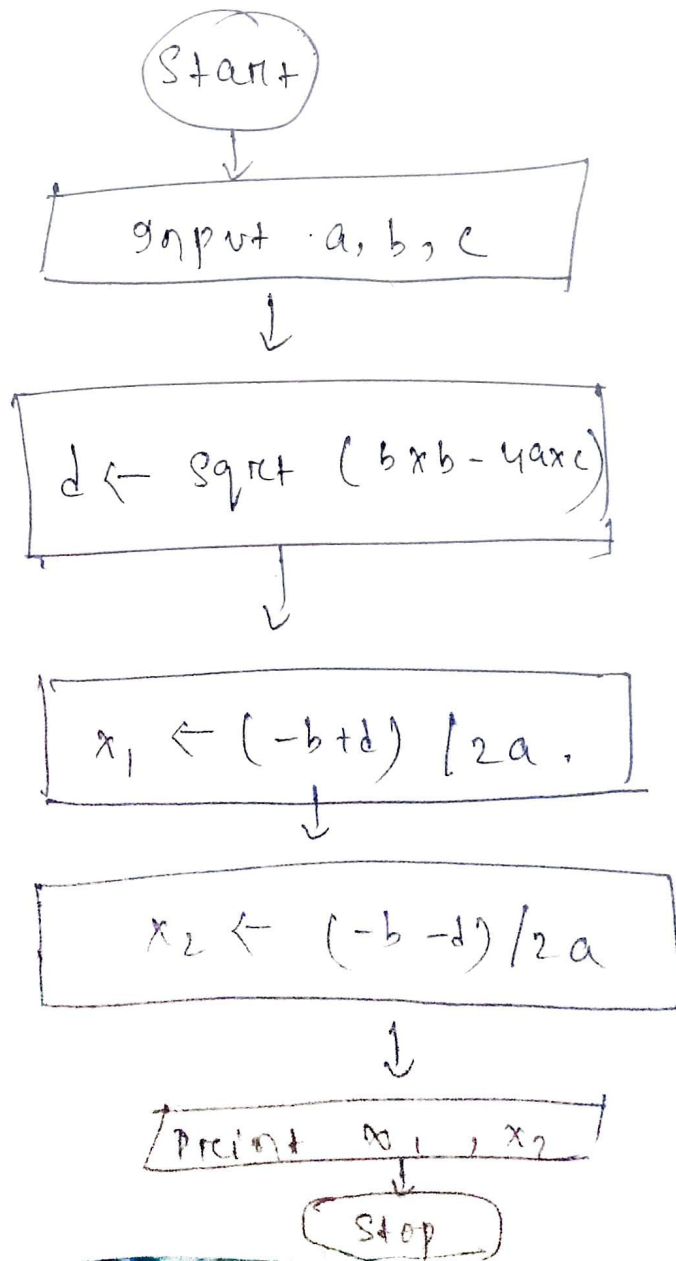
Step 1: input a, b, c

Step 2: $d \leftarrow \text{sqrt}(b \times b - 4 \times a \times c)$

Step 3: $x_1 \leftarrow (-b + d) / 2a$

Step 4: $x_2 \leftarrow (-b - d) / 2a$

Step 5: print x_1, x_2



find the factorial of a given number.

Step 1: Start.

Step 2: Read n

Step 3: initialize counter variable i to 1 and
fact to 1

~~Start~~

Step 4: If $i \leq n$ go to Step 5 otherwise go to
Step 7.

Step 5: Calculate $\text{fact} = \text{fact} * i$

Step 6: increment counter variable i and
go to Step 4

Step 7: write fact.

Step 8: Stop.

