1.Find student average mark gven mark 1 and mark 2.

input-mark1 and mark2 output-average mark

Step 1:Start

Step 2:Declare values mark1,mark2 and avg

Step 3:Read values mark1 and mark2 and find sum

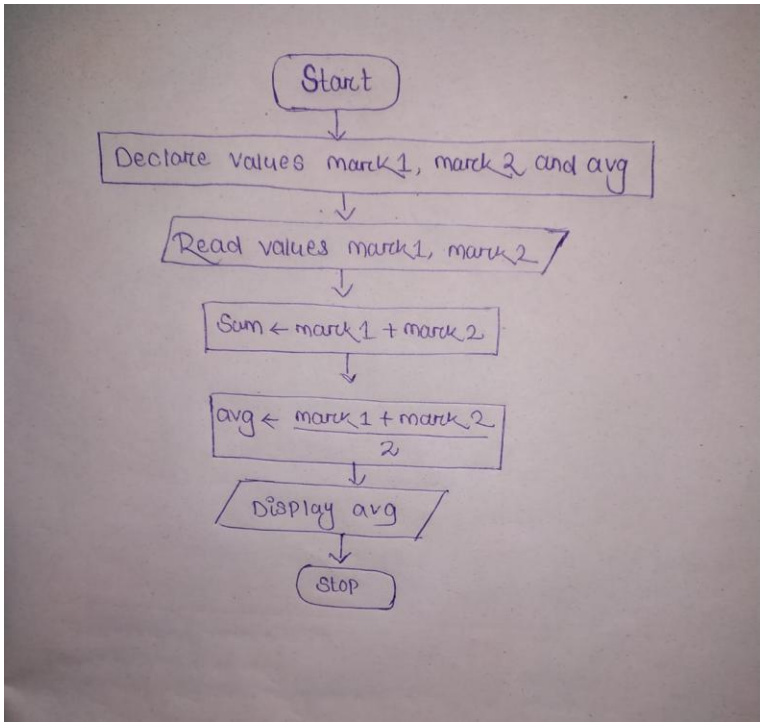
sum←mark1+mark2

Step 4:Divide the sum by 2 and assign the result in avg

avg←mark1+mark2/2

Step 5:Display avg

Step 6:Stop



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

input-issue date,return date and charge output-total fine

Step 1:Start

Step 2:Declare days,initialize charge and fine

Step 3:Read issued date and return date and charge

Step 4:subtract return date and issue date and find number of days

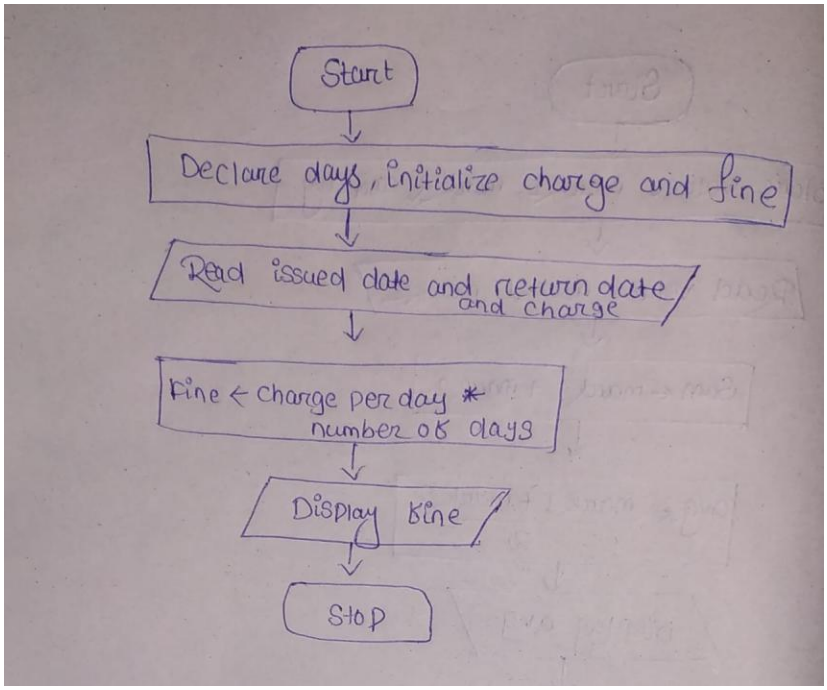
number of days←return date-issued date

Step 5:Multiply the charge per day and number of days and assign the result in fine

fine←charge per day*number of days

Step 6:Display fine

Step7:Stop



3.you had bought a nice shirt which cost is Rs29.90 with 15% discount.Count the net price for the shirt.

Input-cost and discount output-net price

Step 1:Start

Step 2:Declare cost,discount and net price

Step 3:Read cost and discount

Step 4:Multiply the discount and cost and find the discount cost

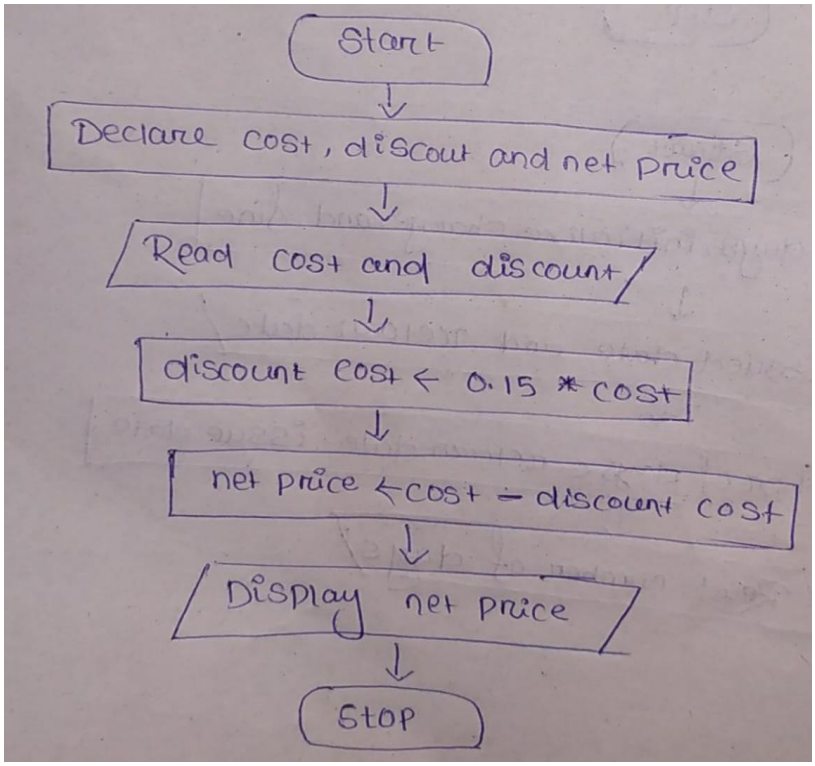
discount cost←0.15*cost

Step 5:subtract the actual cost and discount cost and assign the result in net price

net price←cost-discount cost

Step 6:Display net price

Step 7:Stop



4.Find th smallest number among three different numbers.

Step 1:Start input-variable a,b,c

Step 2:Declare 3 variables a,b,c output-smallest number

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

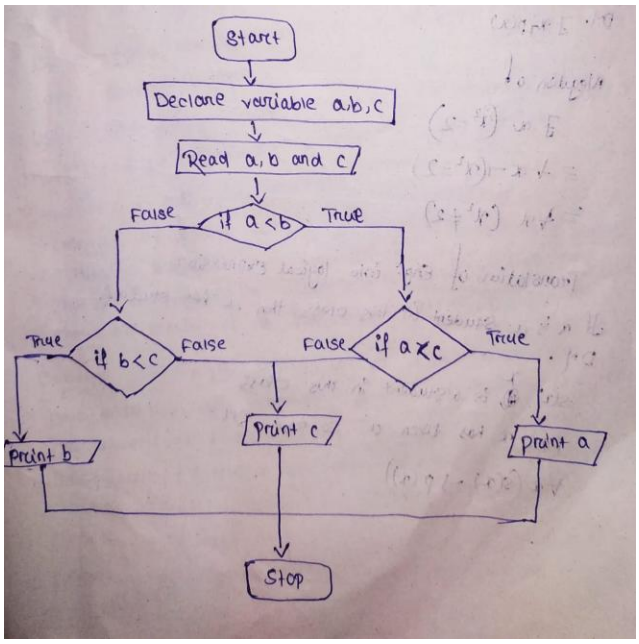
if b<c

Display b is the smallest number

Else

Display c is the smallest numer

Step 5:Stop



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

input-variable a,b,c output-roots x1,x2

Step 1:Start

Step 2:Declare variables a,b,c

Step 3:Read 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

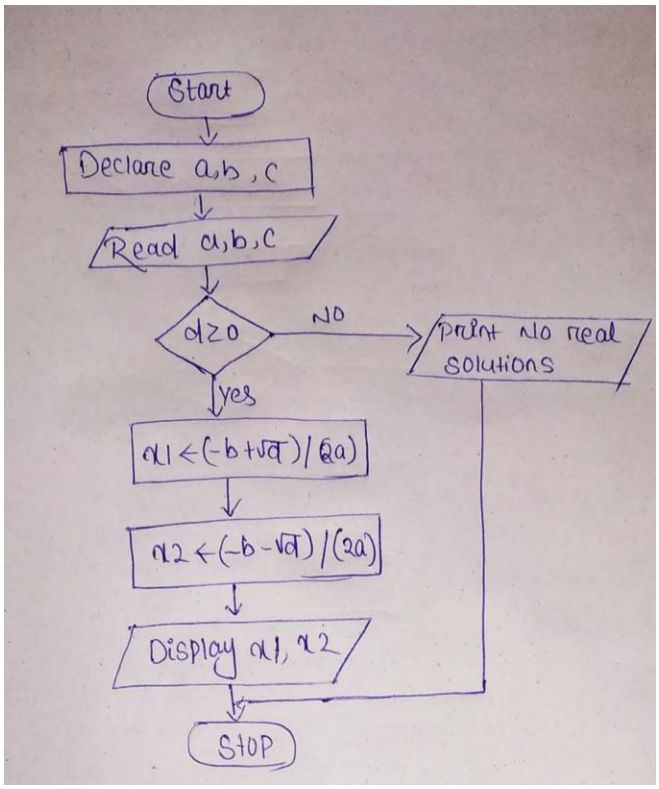
x1←(-b+sqrt(d))/(2*a)

x2←(-b-sqrt(d))/(2*a)

Step 6:Display x1,x2

Step 7:If D is less than zero ,then print No real solutions

Step 8:Stop



6. Find the factorial of a given number.

Input-variable num,i,fact output-fact

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 and 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