Q1. Find a student average mark given mark1 and mark2.

ALGORITHM:-

STEP1: Start

STEP2: Declar variables mark1,mark2 ,sum

STEP3: Read values mark1 and mark2

STEP4: Find the addition of mark1 and mark2, assign the values to sum

Sum=mark1+mark2

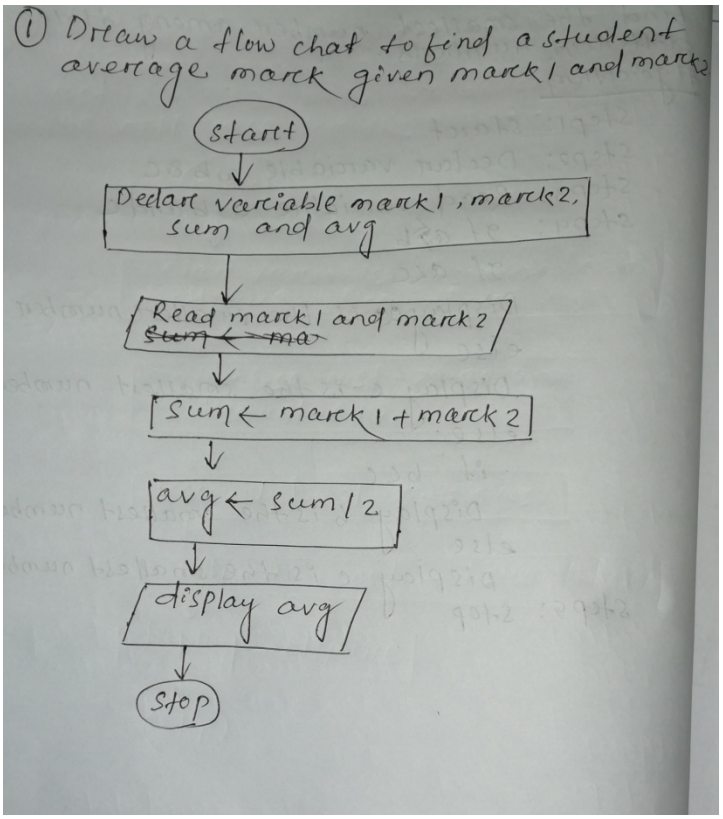
STEP5: Find average of sum, assign the values to avg

Avg =sum/2

STEP6: Display avg

STEP7: Stop

FLOWCHART:-



Q2. Calculate the total fine charged by library for late-return books. The charge is 0.20 INR for 1 day.

ALGORITHM:-

STEP1: Start

STEP2: Declar variables issued date ,return date,days,fine

STEP3: Initialise charge=0.20

STEP4: Substract return date from issued date ,assign the values to days

Days=issued date-return date

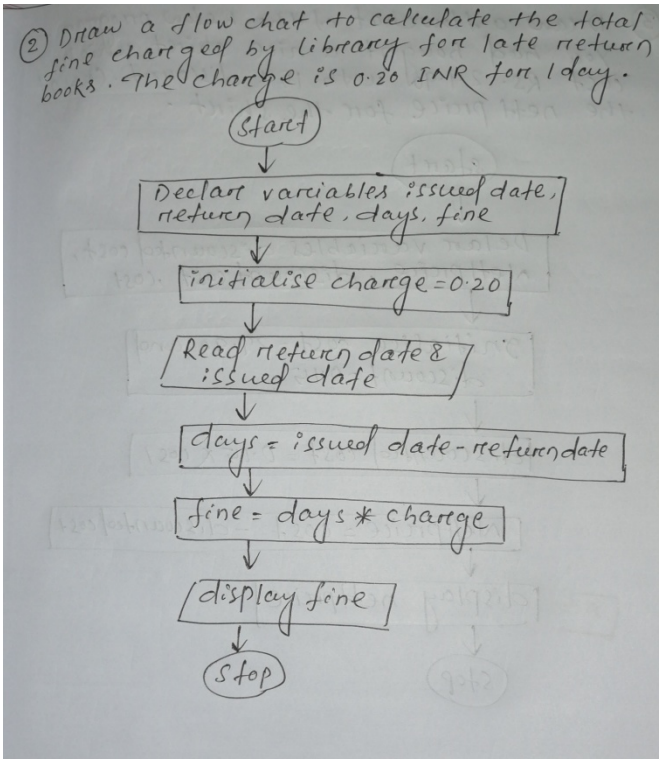
STEP5: Multiply days with charge and assign value to fine

Fine=days*0.20

STEP6: Display fine

STEP7:Stop

FLOWCHART:-



Q3. You had bought a nice shirt which cost Rs.29.90 with 15% discount. Count the nett price for the shirt

ALGORITHM:-

STEP1: Start

STEP2: Declar variables discounted cost, nett price, discount percentage, cost

STEP3: Initialize discount percentage=0.15 and cost=29.90

STEP4: Multiply discount percentage with cost and assign the value to discounted cost

Discounted cost=0.15*cost

STEP5: Substract discounted cost from cost and assign the values to nettprice

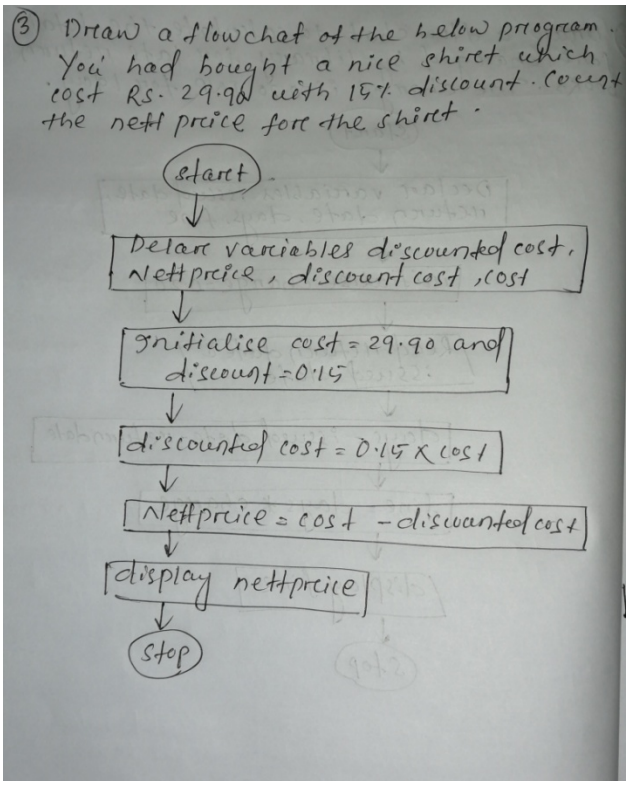
Nettprice

Nettprice=cost-discounted cost

STEP6: Display nett price

STEP7: Stop

FLOWCHART:



Q4. Find the smallest number among three different numbers.

ALGORITHM:-

STEP1: Start

STEP2: Declar variable a,b,c

STEP3: Read variable a,b,c

STEP4: If a<b

If a<c

Display a is smallest number

Else

Display c is the smallest number

Else

If b<c

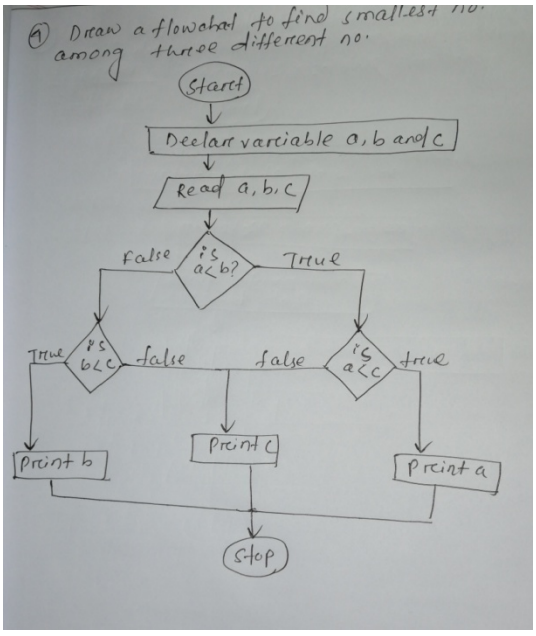
Display b is the smallest number

Else

Display c is the smallest number

STEP5: Stop

FLOWCHART:-



Q5. . Find the Roots of a quadratic equation ax2 + bx + c = 0.

ALGORITHM:-

STEP1: Start

STEP2: Declar variable a,b,c,x,x1,x2

STEP3: Read values a,b,c

STEP4: Find value of b*b-4*a*c and assign value to x

x<- sqrt(b*b-4*a*c)

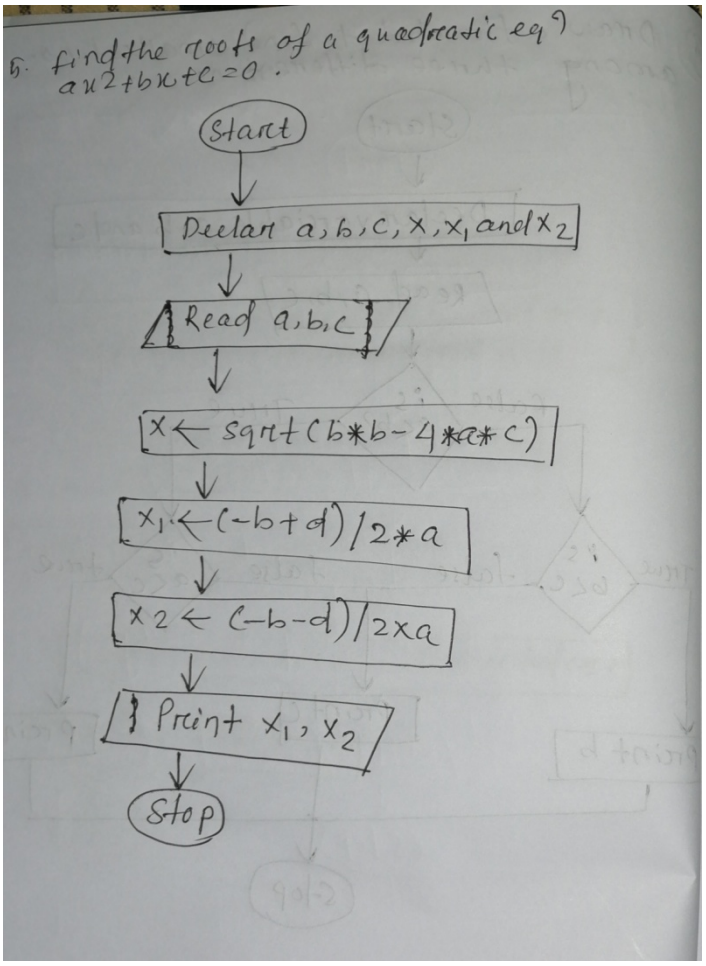
STEP5: x1<-(-b+x/2*a)

STEP6: x2<-(-b-x/2*a)

STEP7: Display x1 and x2

STEP8: Stop

FLOWCHART:-



Q6. Find the factorial of a given number.

ALGORITHM:-

STEP1: Start

STEP2: Read n

STEP3: Initialize counter variable to 1 and fact to 1

STEP4: If i<=n goto step 5 otherwise goto step7

STEP5: calculate fact= fact*i

STEP6: Increment counter variable i and goto step 4

STEP7:Display fact

STEP8: Stop

FLOWCHART:-