Assignment 1

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

step 1: start

step 2: Declare varibles mar1, mar2, avg, sum

step 3: Read values mark1 and mark2

step 4: Add mar1 and mar2 and assign the result to sum

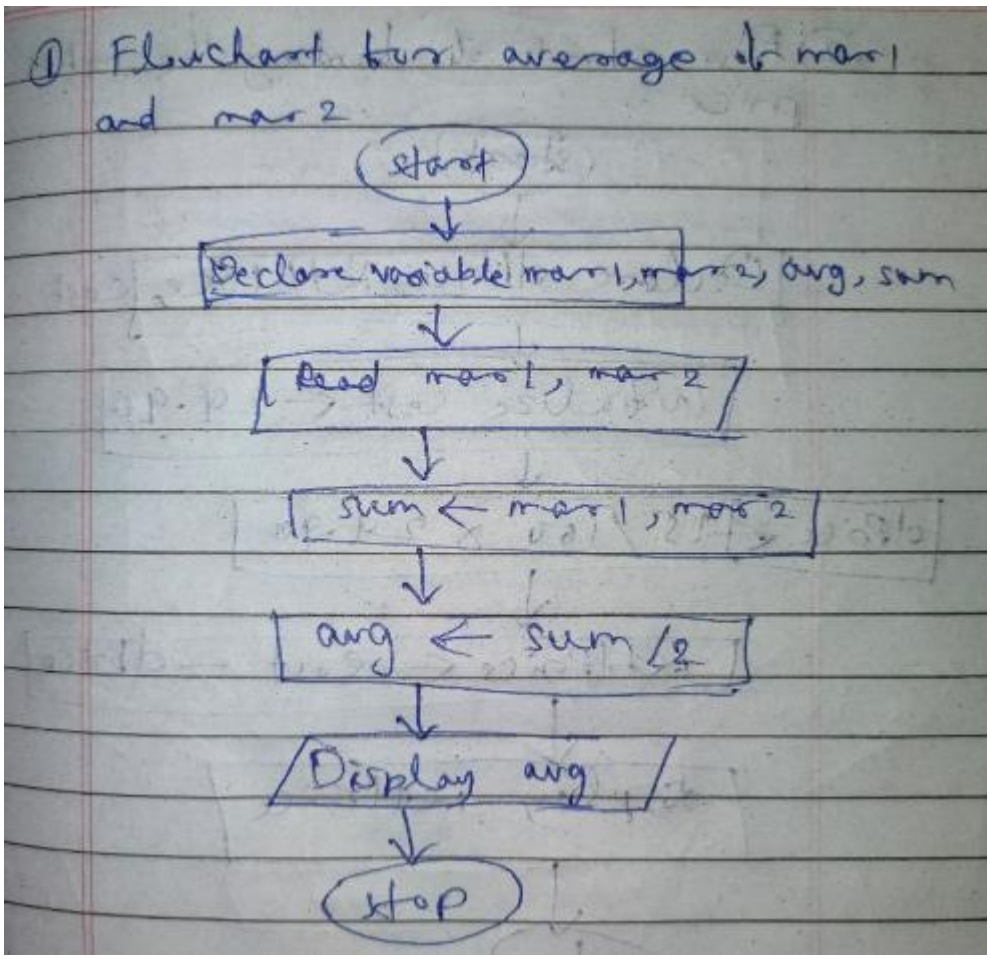
sum <-- mar1+mar2

step 5: Divide sum by 2 and assign to avg

avg <-- sum/avg

step 6: print avg

step 7: 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 days, totalFine

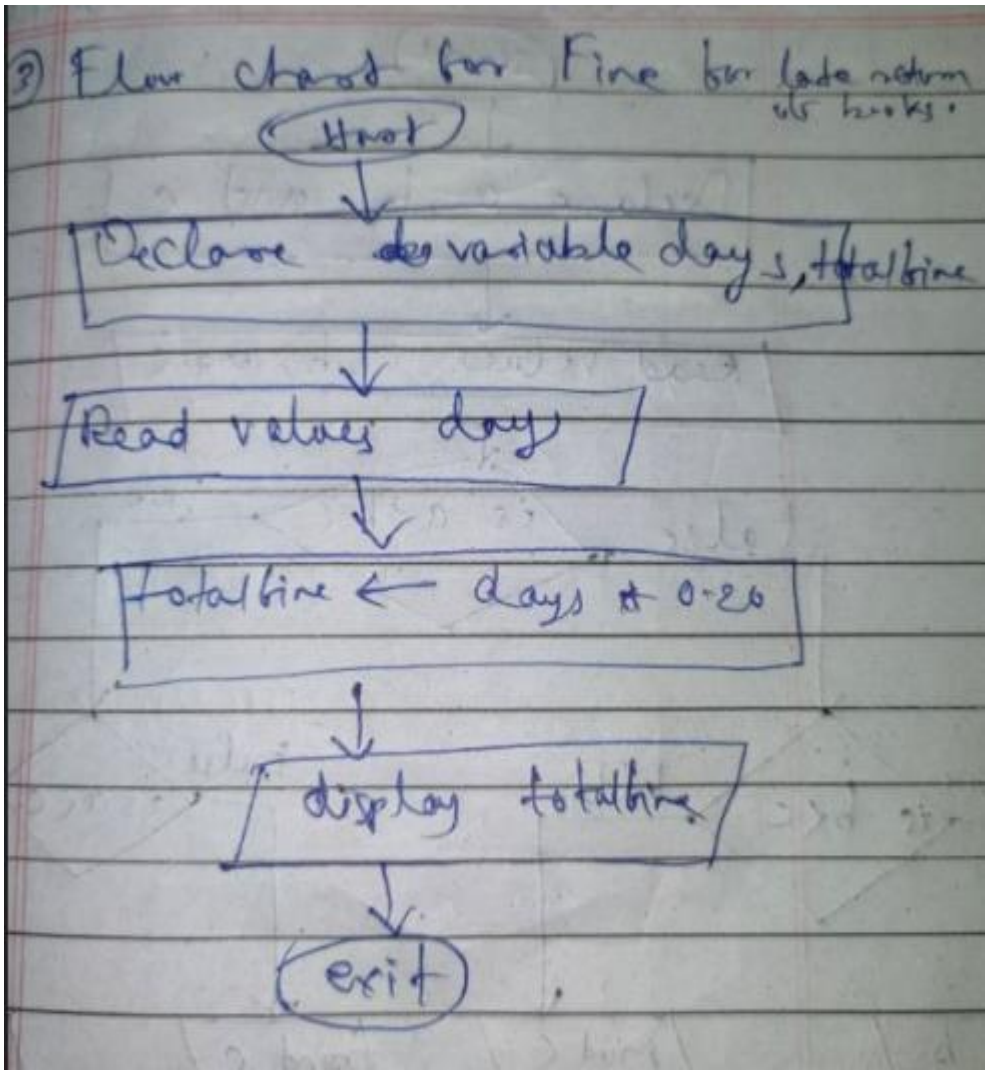
step 3: Read values no of days in days

step 4: Calculate days * 0.20 and assign in totalFine

totalFine <-- days * 0.20

step 5: print totalFine

step 6: stop



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

step 1: start

step 2: Declare dPrice,nettPrice

step 3: calculate 15/100 * 29.90 and assign to dPrice

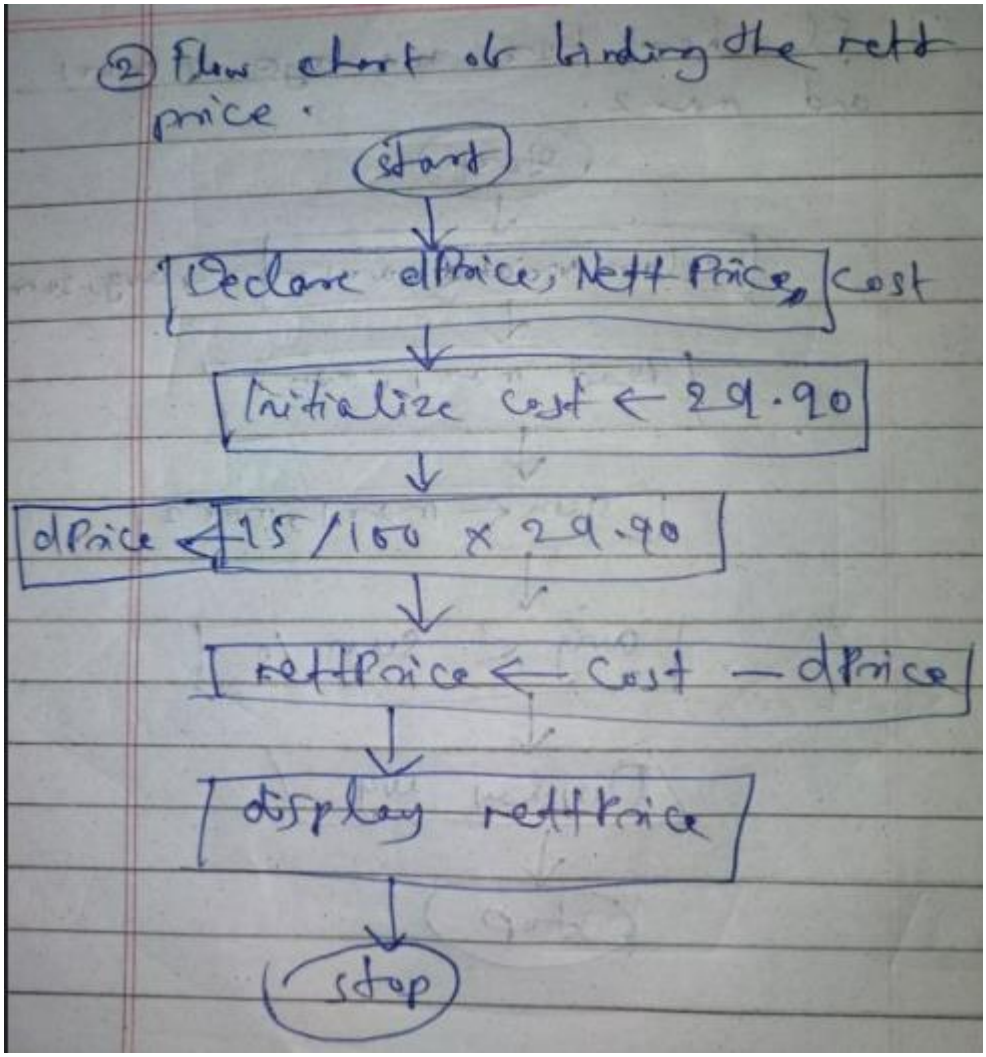
dPrice <-- 15/100 * 29.90

step 4: Substract cost by dPrice and assign in nettPrice

nettPrice <-- cost-dPrice

step 5: print nettPrice

step 6: stop



4. Find the smallest number among three different numbers.

step 1: start

step 2: Declare n1, n2 and n3

step 3: read the values for n1, n2 and n3

step 4: If n1<n2 go to step 5 otherwise step 6

step 5: If n1<n3 go to step 7 otherwise go to step 9

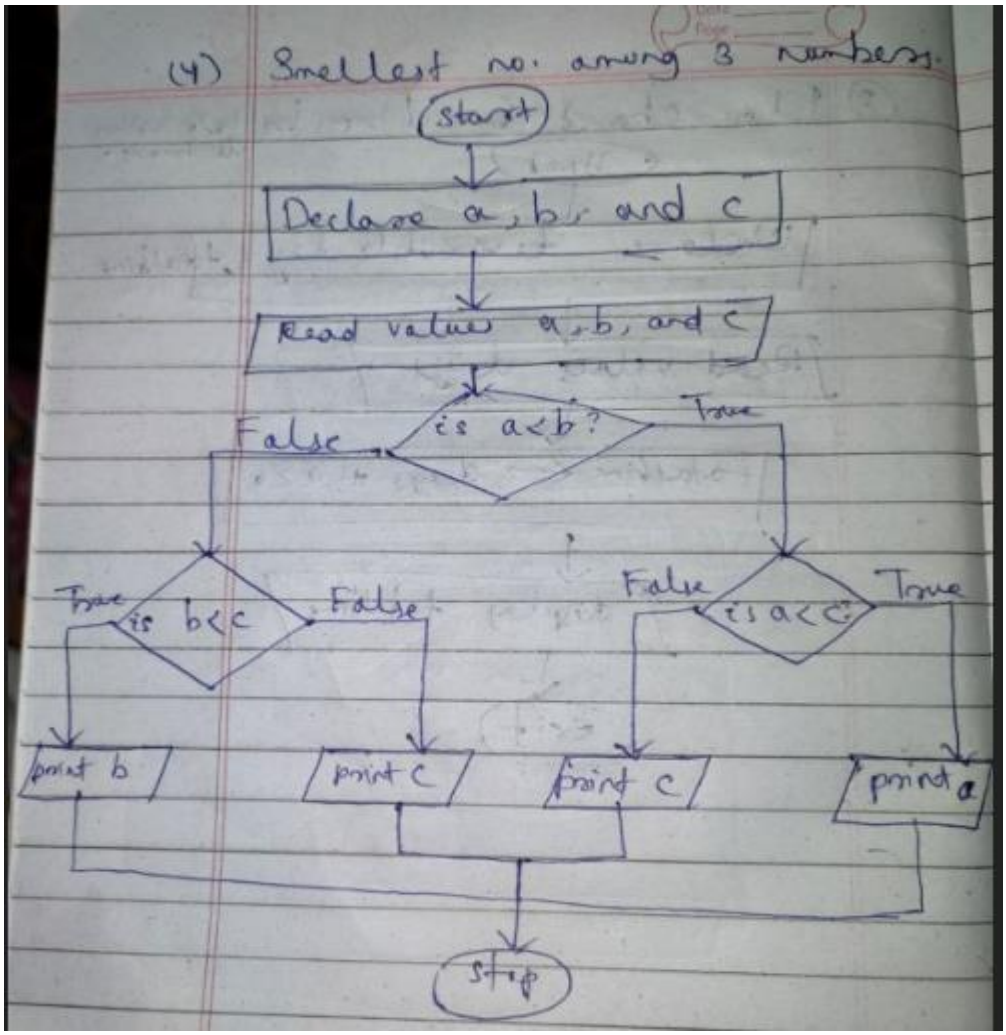
step 6: If n2<n3 go to step go to step 8 otherwise go to step 9

step 7: print n1 is the smallest and go to step 10

step 8: print n2 is the smallest and go to step 10

step 9: print n3 is the smallest

step 10: stop



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

step 1: start

step 2: declare a, b, c, d, r1 and r2

step 3: read a, b, and c

step 4: calculate (b x b) - (4 x a x c) and assign in the d

d ← (b*b) - (4*a*c)

step 5: calculate (- b + sqrt (d)) / 2 x a, and assign to r1

r1 ← (- b + sqrt (d)) / 2 x a

step 6: calculate (- b - sqrt (d)) / 2 x a, and assign to r2

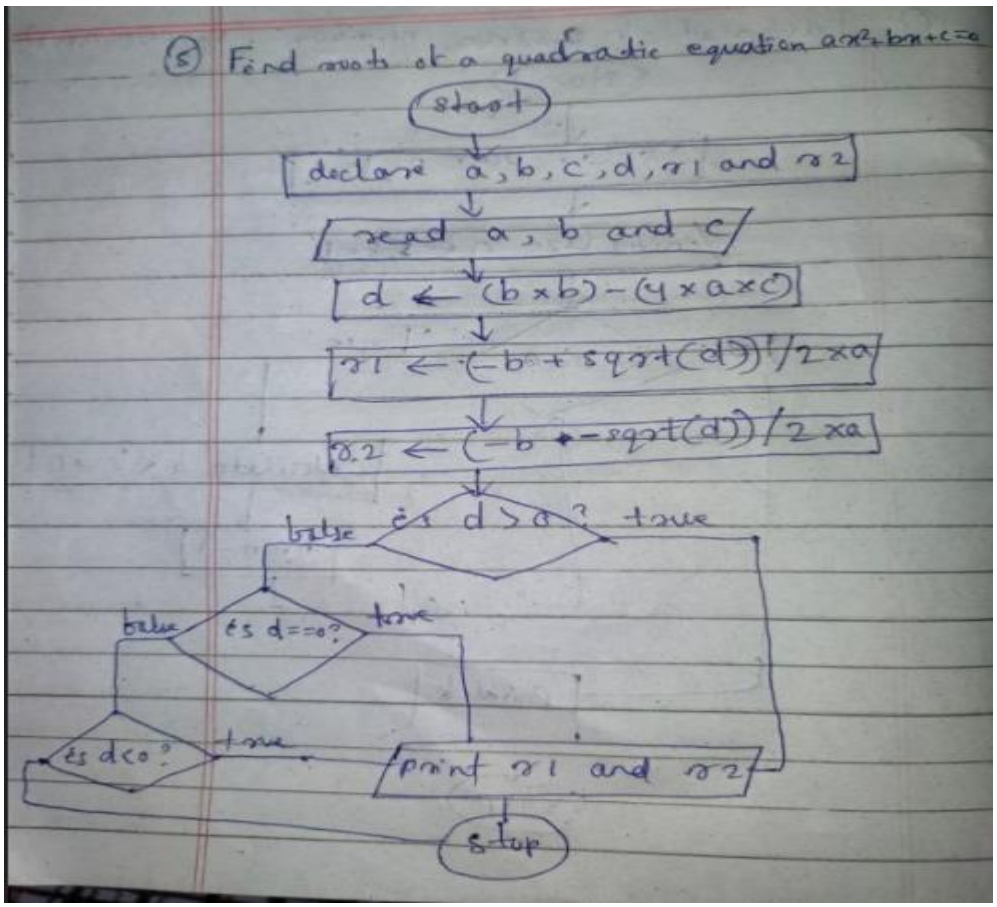
r2 ← (- b - sqrt (d)) / 2 x a

step 7: If d > 0 print Roots are real and print r1 and r2

step 8: If d==0 print Roots are real and same, and print r1

step 9: If d < 0 print Roots are Complex, and print r1 and r2

step 10: stop



6. Find the factorial of a given number, suppose the given number is 10.

Step 1: start

Step 2: Declare variables n, f

Step 3: Initialize n ← 5 and f ← 1

Step 4: [Loop] Calculate f x n and assign to f

f ← f x n

step 5: n ← n – 1

step 6: repeat step 4 and step 5 until n > 0

step 7: print f

step 8: stop