P1- Find a student average mark given mark1 and mark2.

Step1: START

Step2: Declare Variables ‘Mark1’ for student 1 mark and ‘’Mark 2’ for student 2 mark, Average, Sum

Step3: Take marks Input Mark1 and Mark 2

Step4: Add both the marks and assign the value to ‘Sum’

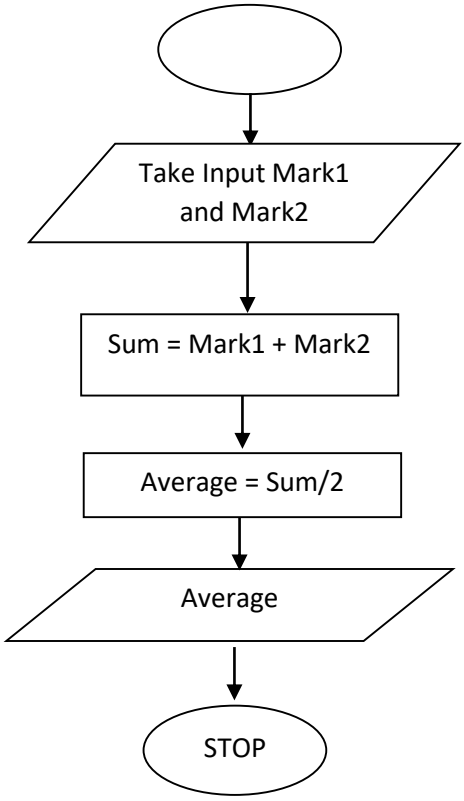
Step5: Sum = Mark 1 + Mrark 2

Step6: Divide the ‘Sum’ by number of student i.e. 2 and assign the value to ‘Average’

Step7: Average = Sum/2

Step8: STOP

FLOWCHART:



P2- Calculate the total fine charged by library for late-return books. The charge is 0.20 INR for 1 day

STEP1: Start

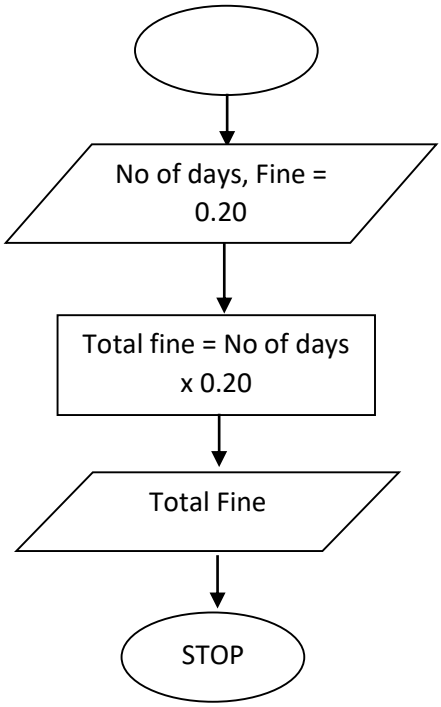
STEP2: Declare variables No of days, total fine charge (TF), Fine charge per day (Fine) = 0.20

STEP3: Total fine = No of days x 0.20

STEP4: Display Total Fine value.

STEP5: Stop

FLOWCHART:



P3 - You had bought a nice shirt which cost Rs.29.90 with 15% discount. Count the nett price of the shirt

Step 1: START

Step 2: Declare the variables CP (Cost Price), DR (Discount Rate), DA (Discount amount), Nett Price

Step 3: Take Input for CP = 29.90, DR = 0.15

Step 4: Calculate Discount Amount (DA) by Multiplying CP with DR (CP * DR)

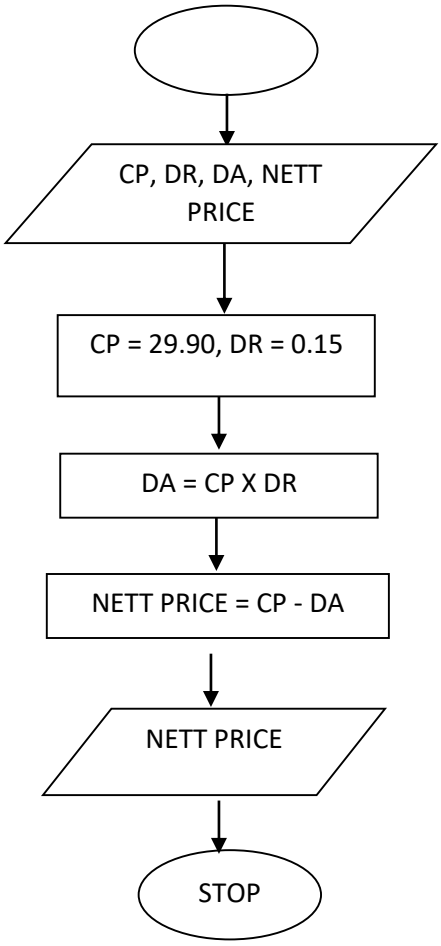
Step 5: Assign the value to Discount Amount (DA)

Step 6: Subtract the discount amount from cost price (CP – DA)

Step 7: Assign the value to Nett Price and Display

Step 8: STOP

FLOWCHART:



P4 - Find the smallest number among three different numbers

STEP1: Start

STEP2: Declare Num1, Num2, Num3

STEP3: Take Input for Num1, Num2, Num3

STEP4: If a < b

STEP5: If a < c

STEP6: Display a is the smallest number

Else

Display c is the smallest number

Else

STEP7: If b < c

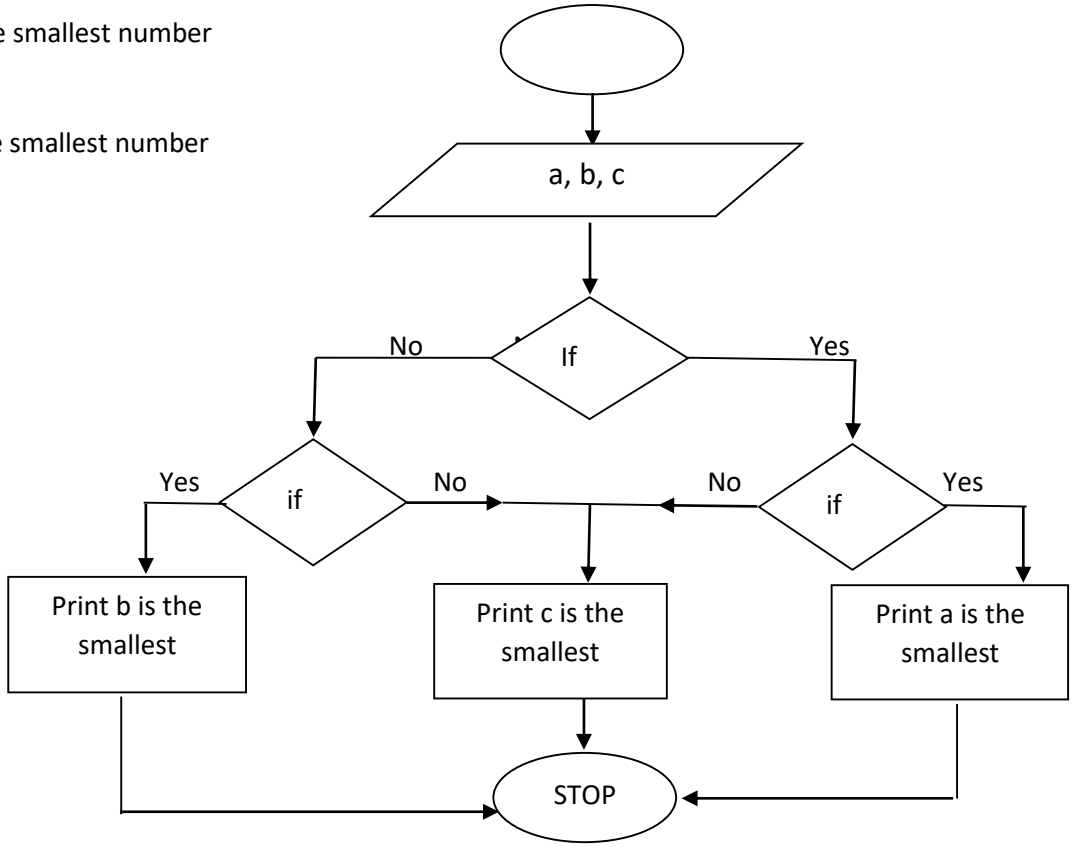
Display b is the smallest number

Else

Display c is the smallest number

STEP8: Stop

FLOWCHART:



P5 - Find the Roots of a quadratic equation ax2 + bx + c = 0

STEP1: Start.

STEP2: Declare the variables a, b, c, D, X1 and X2.

STEP3: Take Input a, b, c.

STEP4: Enter the co-efficient of the quadratic equation.

STEP5: Calculate the roots of quadratic equation using the appropriate formula and assign it to D.

STEP6: D = sqrt (b x b – 4 x a x c).

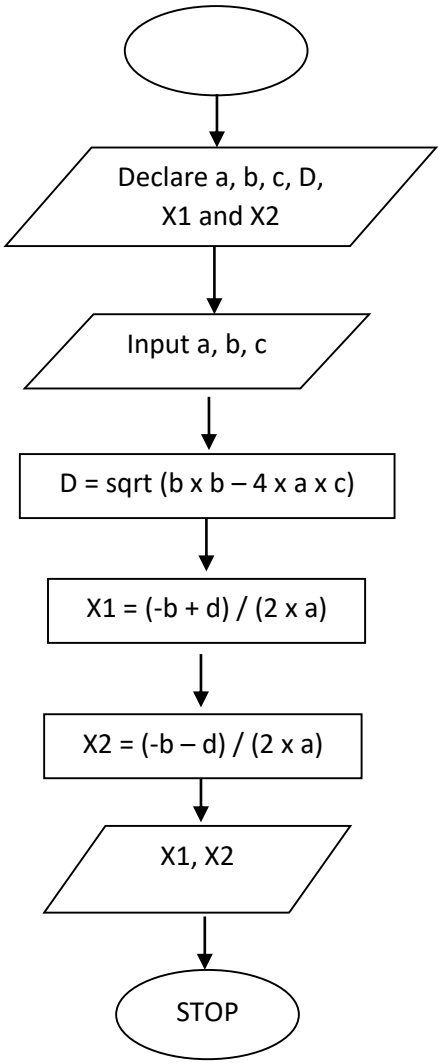
STEP7: X1 = (-b + d) / (2 x a).

STEP8: X2 = (-b – d) / (2 x a).

STEP9: Display the value of X1 and X2.

Step10: Stop.

FLOWCHART:



P6 - Find the factorial of a given number

STEP1: Start

STEP2: Take Input of the given number n

STEP3: Initialize counter variable i to 1 (i=1) and fact to 1.

STEP4: if I <= n then execute STEP5 else execute STEP6

STEP5: Increment counter variable i and execute STEP4

STEP6: Display the factorials

STEP7: Stop

FLOWCHART: