Question no;-1

1. Algorithm to add two numbers entered by the user.
2. Ans:-step1: start
3. Step2:- declare variables num 1&num 2 and sum
4. Step3: - read the value num1 & num 2
5. Step4: - add num 1 & num 2 add assign the result to the sum----- num 1+num2
6. Step 5:- display the sum
7. Step6: -stop

Question no-2

Find a student average mark given mark 1 & mark 2.

ALGORITHEM:-

Step1:- start

Step2:- declare the mark M1&M2 and average

Step3:- read the mark m1&m2

Step 4:- add them up and divide the sum by total of the students

Step5:-display the average

Step6:-stop.

Flowchart:-

Question no:-3

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

Step0:- start

Step1:-the day the book has been taken

Step2:-and when the book has been return by the user

Step3:-initialize the fine has been charged

Step4:-the number of days*fine

Step5:-display the fine

Step6:-stop.

Question no 4:-

You brought a nice shirt which cost is 29.90 with 15% of discount count the net price for the shirt.

Algorithm:-

Step1:- start

Step2:-declare cost, discount, to the net price

Step3:-initialize cost and discount

Step4:-discount lost=discount cost

Step5:-net price=cost-discounted lost

Step6:-display the result

Step7:-stop

Question no5:-find the factorial of the given number.

Algorithm:-

Step1:-start

Step2:-declare the number as=n!

Step3:-read the number n!

Step4:-n!=n(n+1)(n+2)(n+3)……2*1

Step5:-display the factorial

Step6:-stop.

Flowchart:-

Question no6:- find the roots of a quadratic equation ax^2+bx+c=0

Algorithm:-

Step1:-start

Step2:-declare the variable a, b & c

Step3:-read the variable a, b & c

Step4:-D↔ $\frac{-b\pm\sqrt{b^2-4ac}}{2a}$ ...

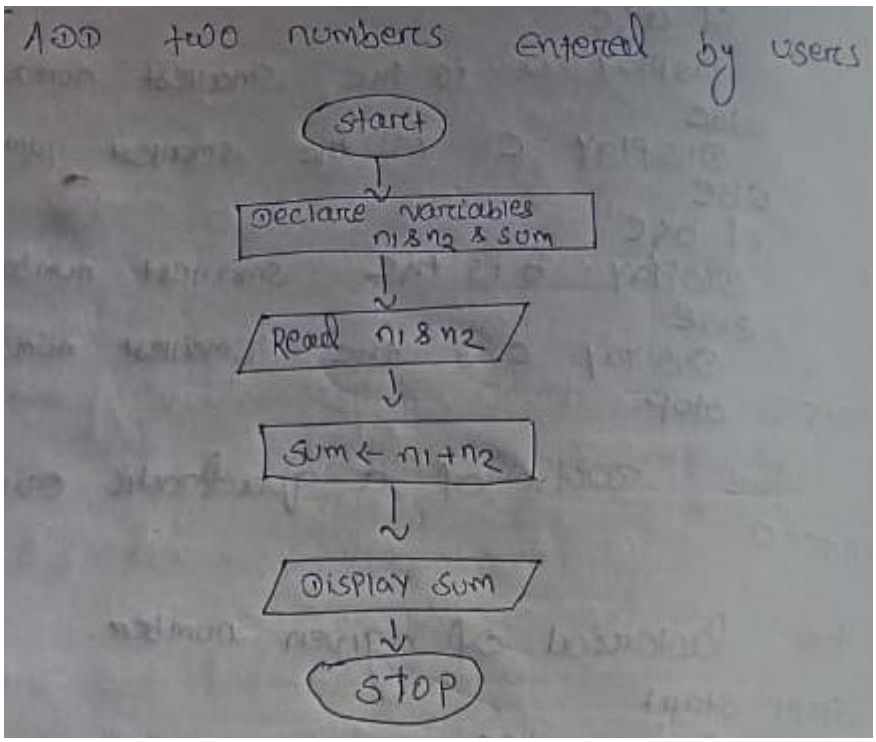
Step5:-x1←$x = \frac{-b\pm\sqrt{b^2-4ac}}{2a}$

Step6:-$x = \frac{2a}{b^2-4ac}$

Step7:- display equation

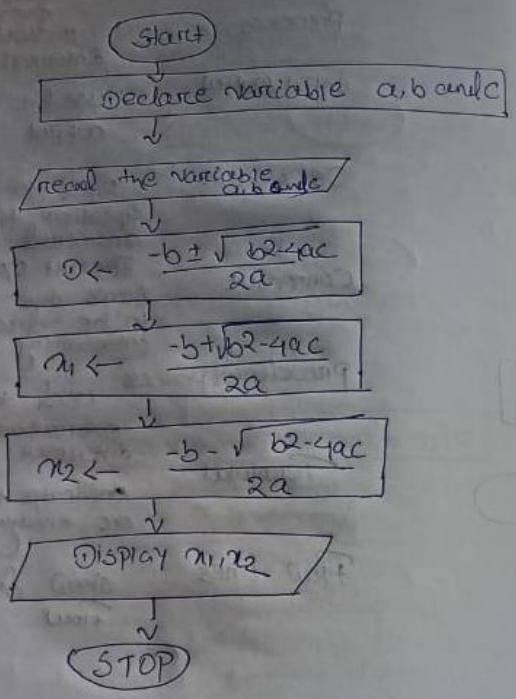
Step8:-stop.

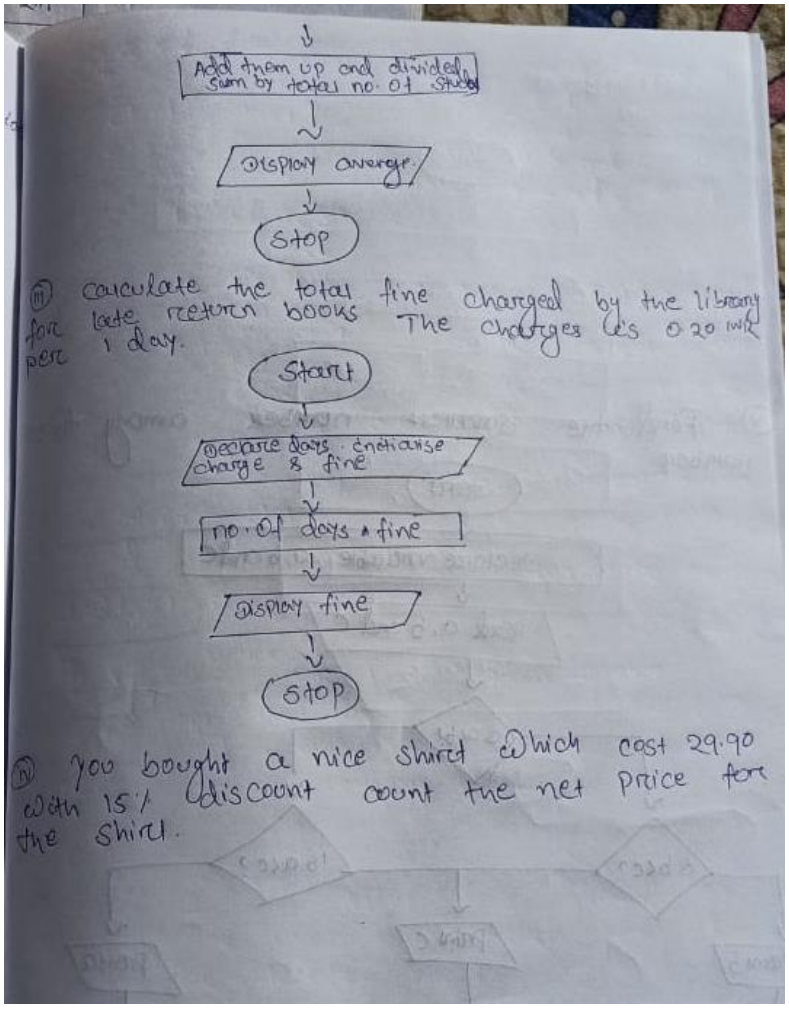
FLOW CHART:-



(2) $ax^2+bx+c=0$

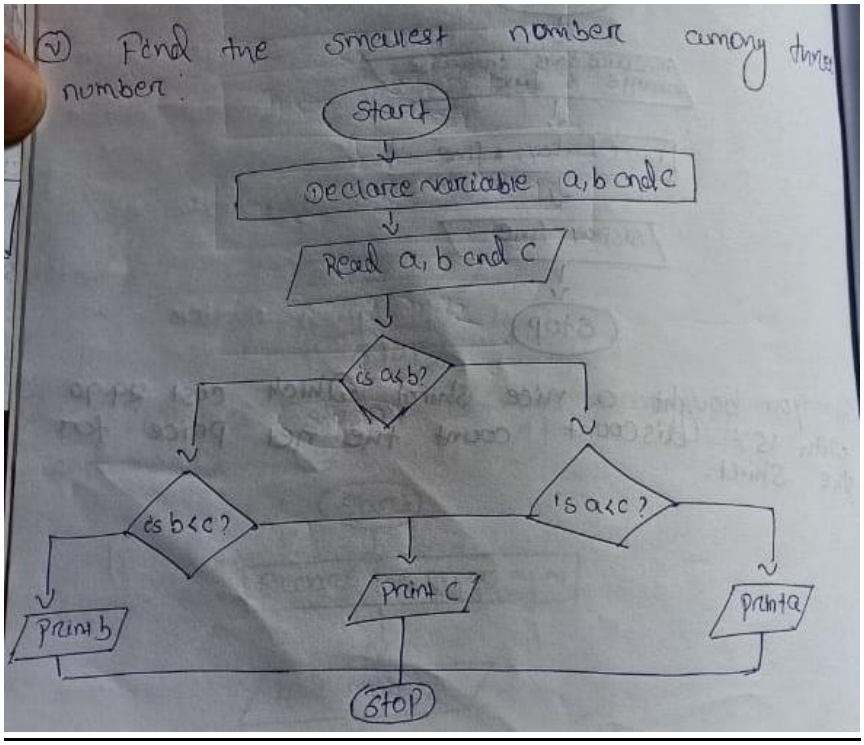
flow chart



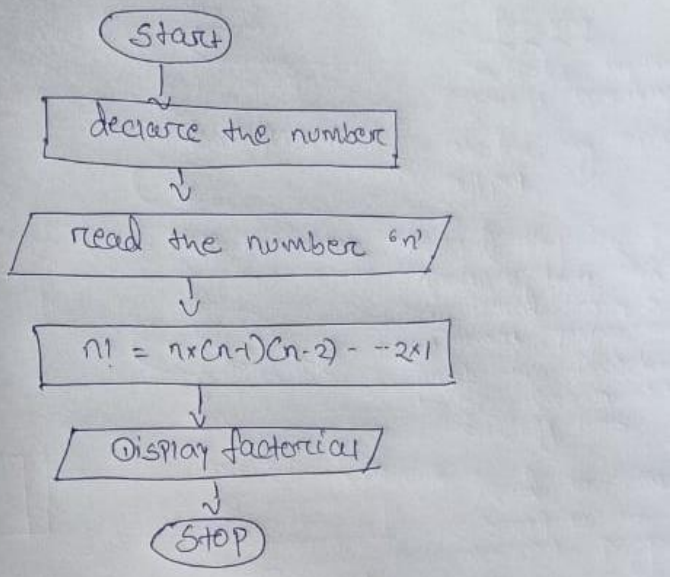


(iii) calculate the total fine charged by the library for late return books The charges is 0.20 per 1 day.

(iv) You bought a nice shirt which cost 29.90 with 15% discount count the net price for the shirt.



(a) factorial

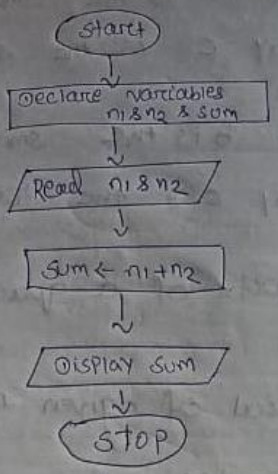
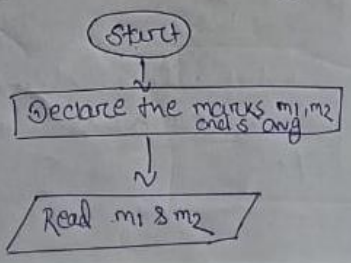

Start
declare the number
read the number 'n'
n! = n x (n-1)(n-2) - - 2x1
display factorial
Stop

Flow Chart

-> A flow chart is a digrammatic representation of an algorithm

-> It helpful for both writing programms & otherstand to other

Ex- ADD two numbers entered by users



(11) Find a student average mark given mark1 and mark2