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(Assignment 1)

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

Algorithm:-

1.start

2.declare variable of m1 and m2 and avg

3.read value of m1 and m2

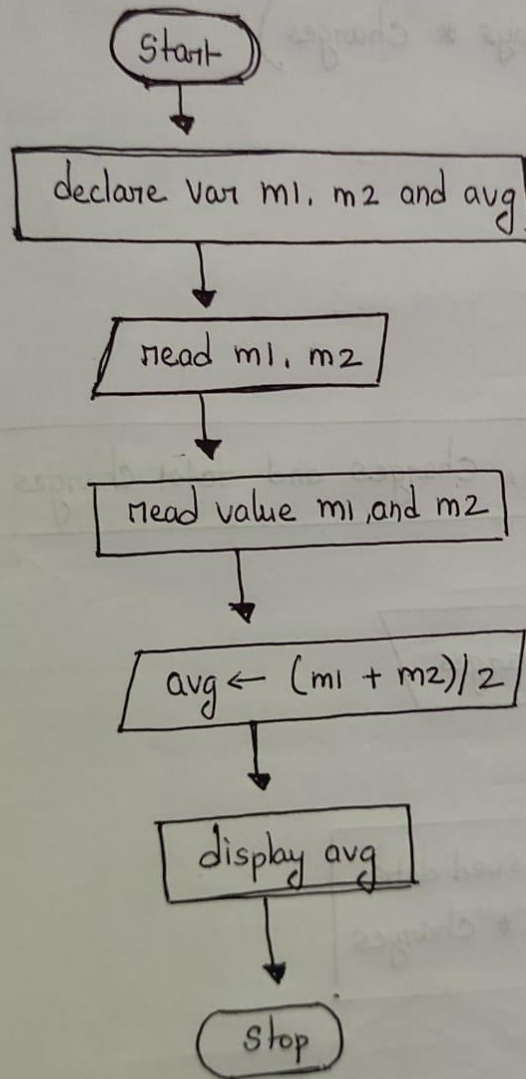
4.add m1 and m2 by 2 and assign the result to avg

$$\text{Avg} \leftarrow (m1 + m2) / 2$$

5.display avg

6.stop

flowchart -



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

Algorithm:-

1.start

2.declare variable issued dt,last dt,total dt,charges,total charges

3.read the value of issued dt,last date and charges

4.calculate total days

( Total days <- last dt-issued dt )

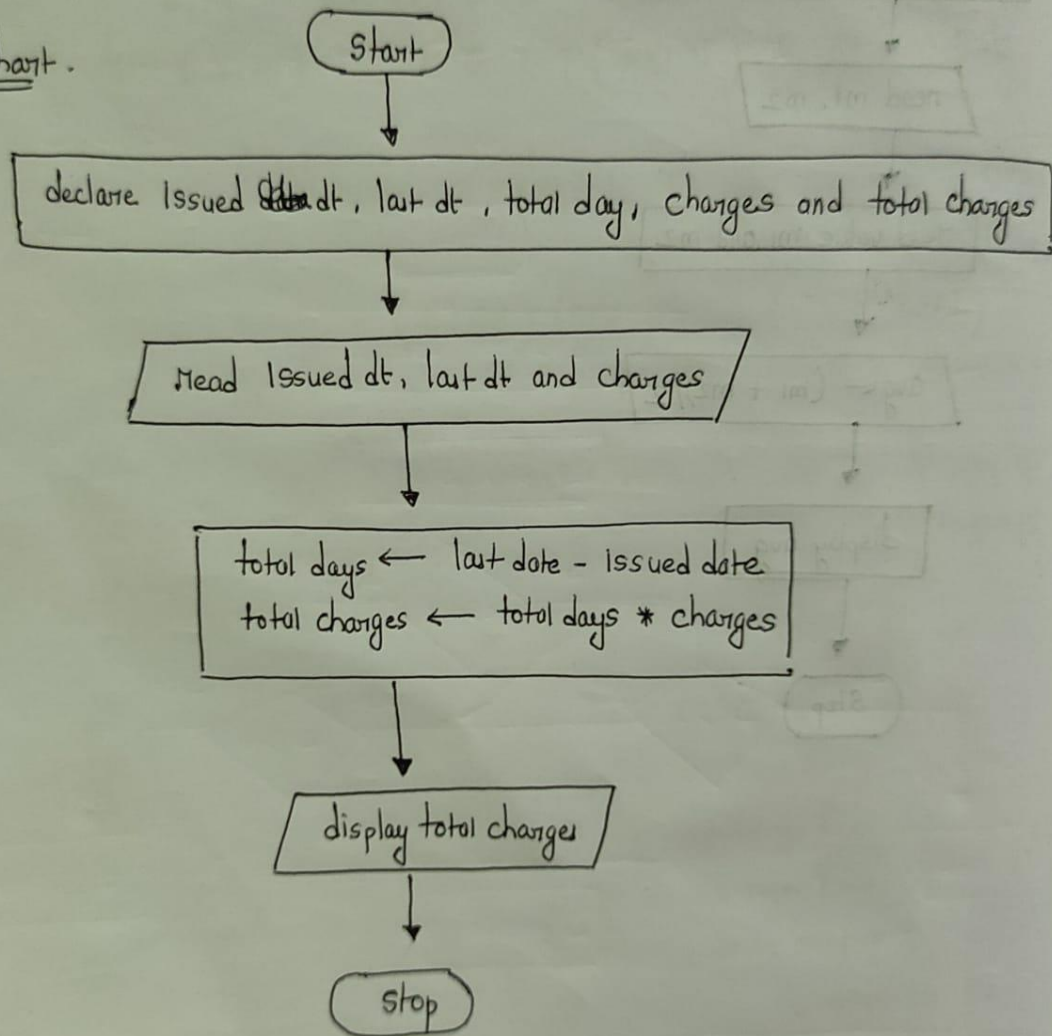
Calculate total charges

(total charges <- total charges\*charges )

5.display charges

6.stop

flow chart.



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

Algorithm:-

1.start

2.declare discounted price,original price,discount,discounted price and nett price

3.read discounted price,original price and nett price

4.calculate discounted price

(discounted price <- discount\*original price)

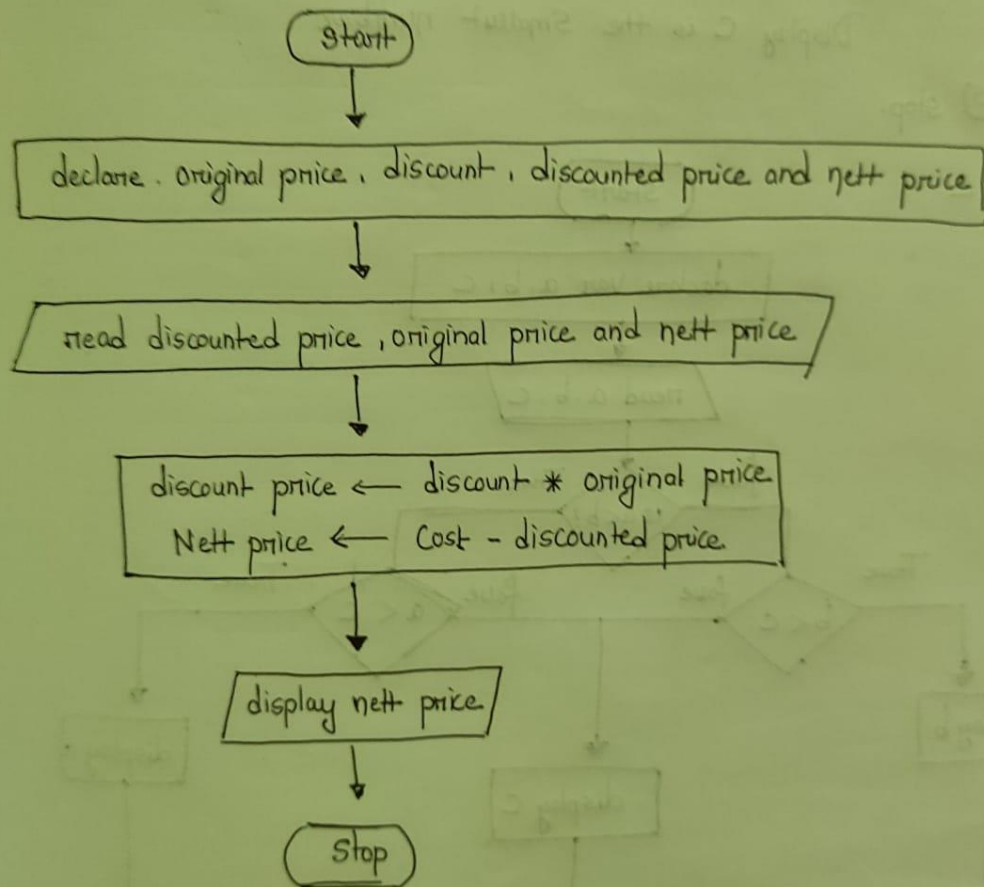
Calculate nett price

(nett price <- cost-discounted price)

5.display nett price

6.stop

flowchart -



4. Find the smallest number among three different numbers

Algorithm:-

1.start

2.declare variable a,b,c

3.read a,b,c

4.if  $a < b$

    If  $a < c$

        Display a is the smallest number

Else

    If  $b < a$

        If  $b < c$

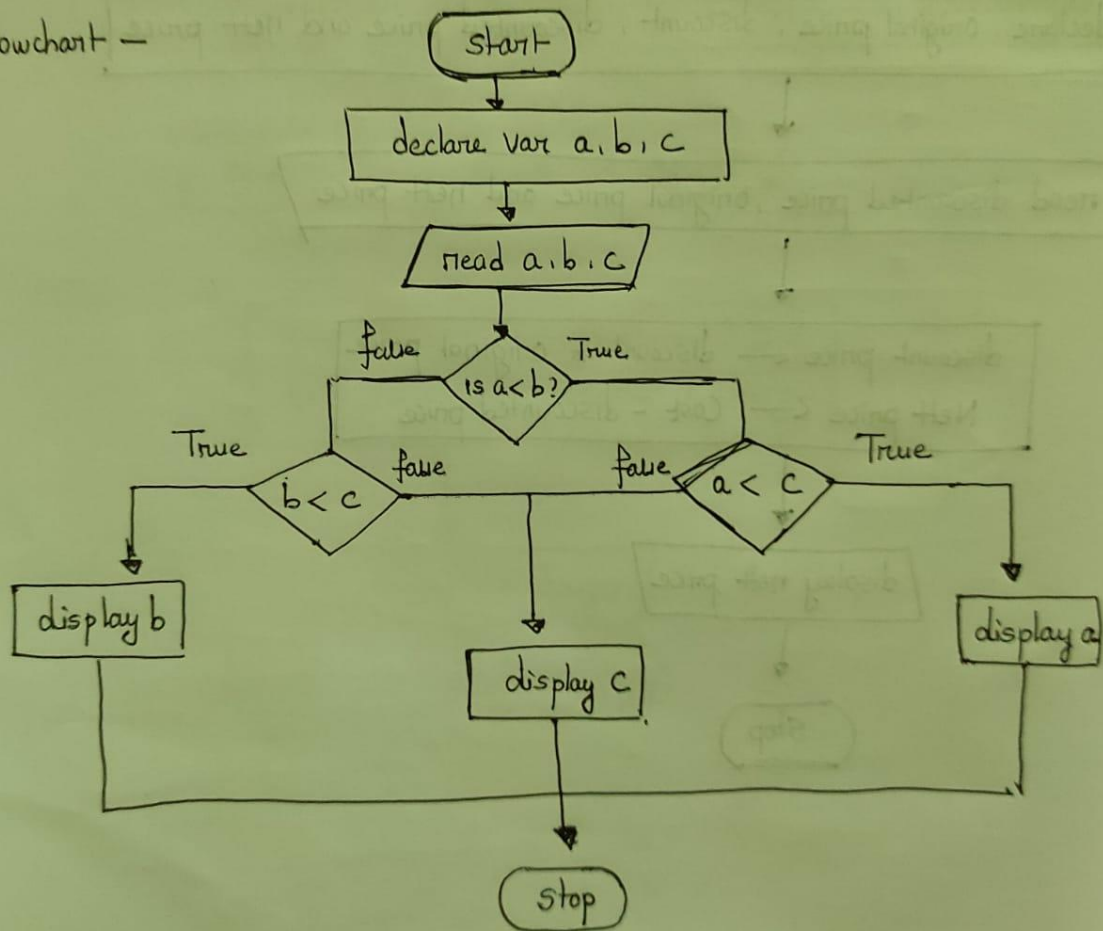
            Display b is the smallest number

Else

    Display c is the smallest number

5.stop

Flowchart -





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

Algorithm:-

1.start

2. declare the required variables

3.read the values of the variables

4.calculate the roots of quadratic equations using the formula

$$d \leftarrow \text{sqrt}(b * b - 4 * a * c)$$

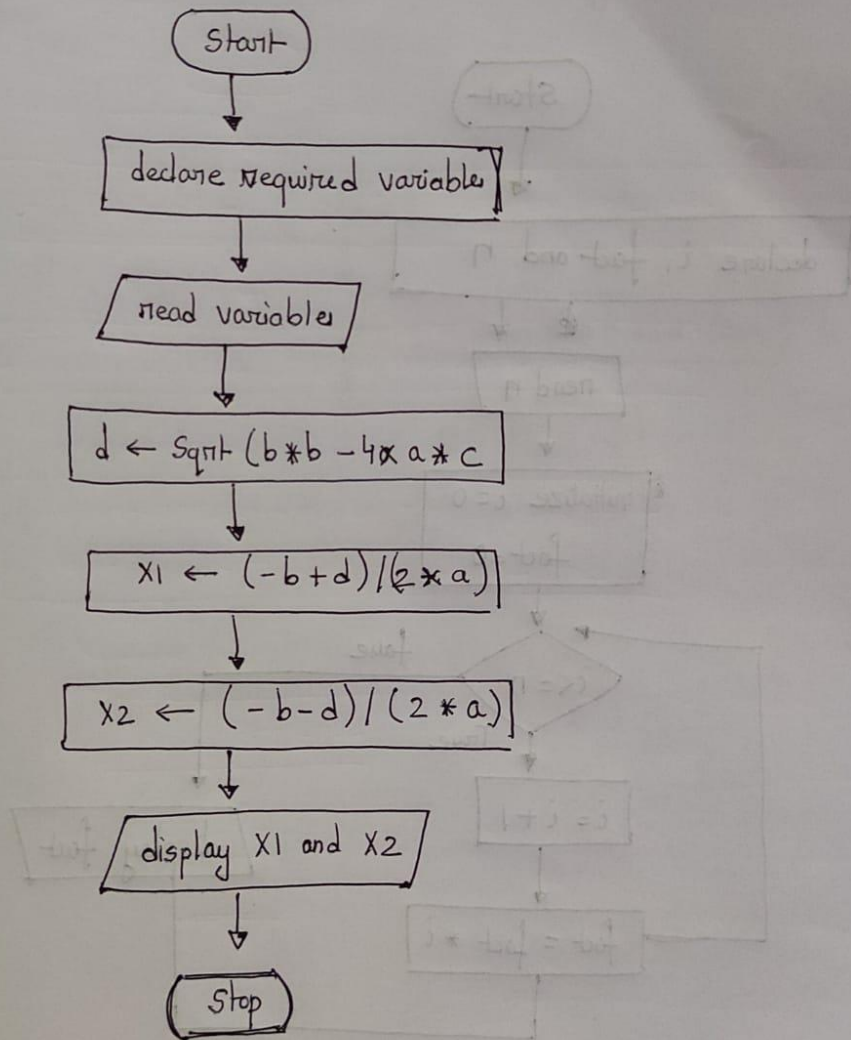
$$X1 \leftarrow (-b + d) / (2 * a)$$

$$X2 \leftarrow (-b - d) / (2 * a)$$

5. display x1 and x2

6.stop

Flowchart -



## 6. Find the factorial of a given number

Algorithm:-

1.start

2.declare variables l,fact and n

3.read n

4.initialize  $i=0$  and  $fact=0$

5.calculate factorial of the number using the formula-

$Fact=fact*i$

Then (  $i=i+1$  )

6.display fact

7.stop

Flowchart -

