

Assignment 1

Algorithm

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

Step 1:start

Step 2:declare mark1,mark2,average,sum

Step 3:assign variable mark1 and mark2

Step 4:sum=mark1+mark2

Step 5:average=sum/2

Step 6: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 issue period,fine=0.02,late return ,no of days

Step 3:assign issue period,no of days

Step 4:late return=no of days-issue period

Step 5:fine =0.02*late return

Step 6:stop

3.you had bought a nice shirt which cost Rs.29.90 with 15% discount.count the net price for the shirt.

Step 1:start

Step 2:declare cp,net price,discount price

Step 3:initialize cp and discount

Step 4:discount price=15% of 29.90

=4.485

Step 5:net price=29.90-4.485

=25.415

Step 6:stop

4.find the smallest number among three different numbers

Step 1:start

Step 2:declare variable a,b ,c

Step 3:read variables a,b,c

Step 4: if $a < b$

 If $a < c$

 Display a is the 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

Step 5: stop

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

Step 1: start

Step 2: declare a, b, c, D, x1, x2

Step 3: read a, b, c

Step 4: $D = b^2 - 4ac$

Step 5: if ($d > 0$)

$X1 = (-b + \sqrt{d}) / 2a$

$X2 = (-b - \sqrt{d}) / 2a$

 Display x1 x2

Else

 If ($d == 0$)

$X1 = -b / 2a$

$X2 = -b / 2a$

 Display x1 x2

Else

 Display root is imaginary

Step 6: stop

6. find the factorial of a given number

Step 1: start

Step 2: Declare i, fact, n

Step 3: initialize i=1, fact=1;

Step 4: repeat step 4 and step 6 till i=n

Step 5: fact*i

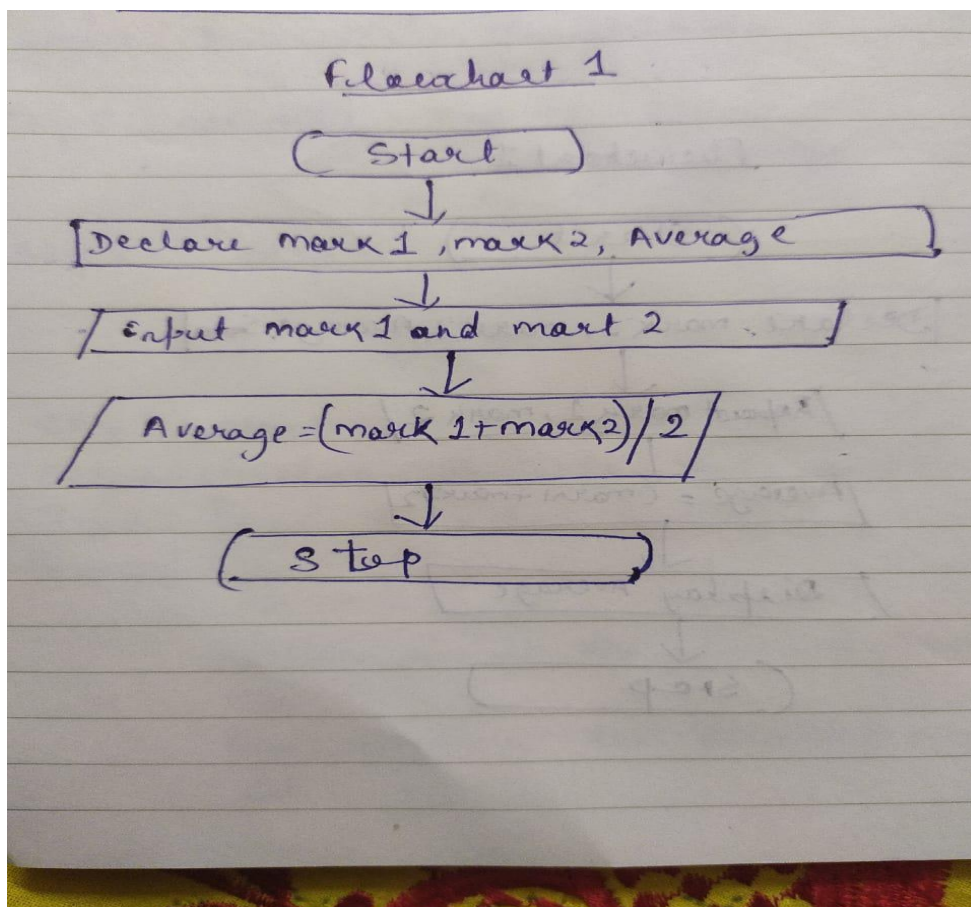
Step 6: i=i+1

Step 7: display factorial

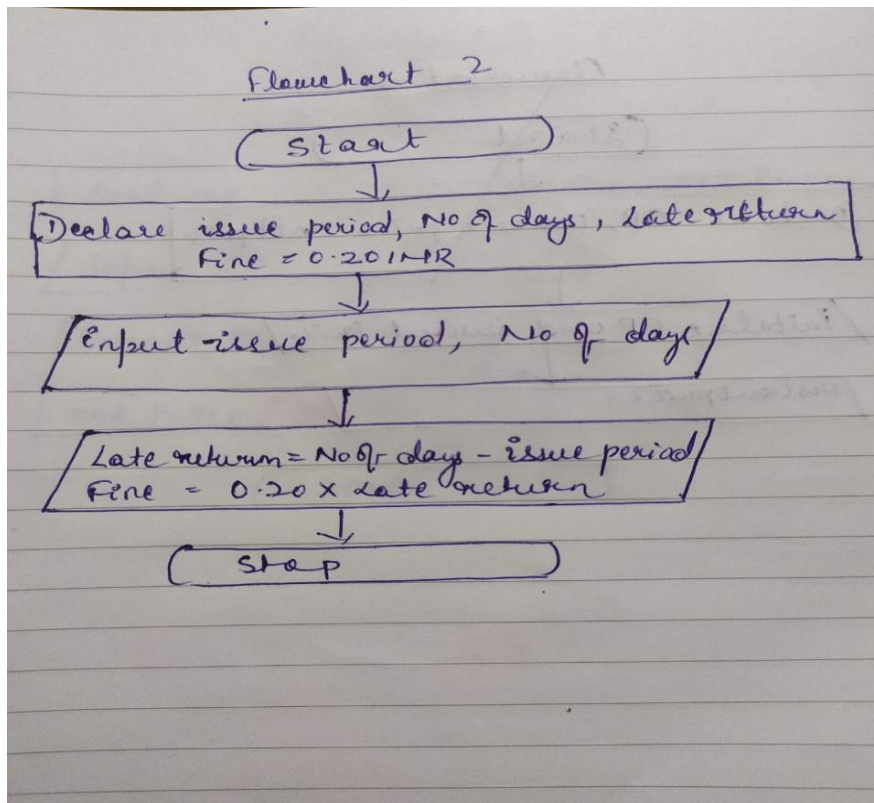
Step 8: stop

FLOWCHART

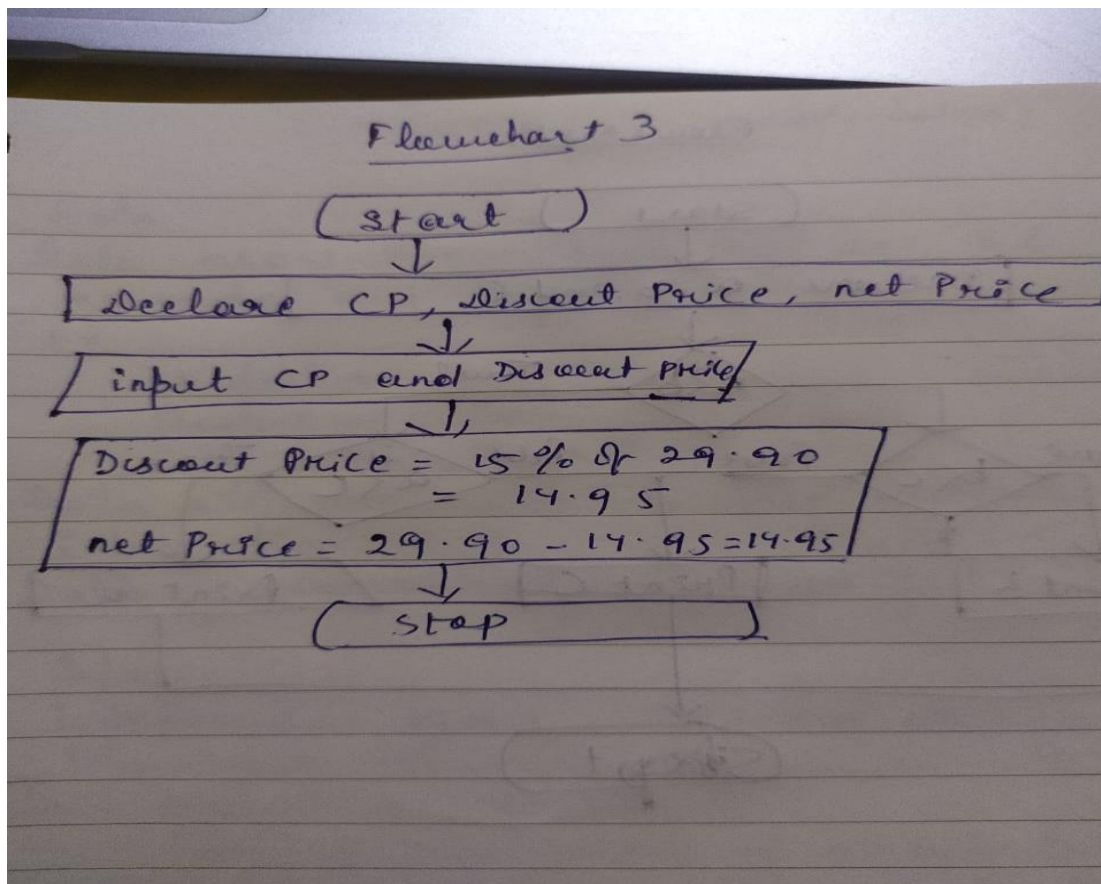
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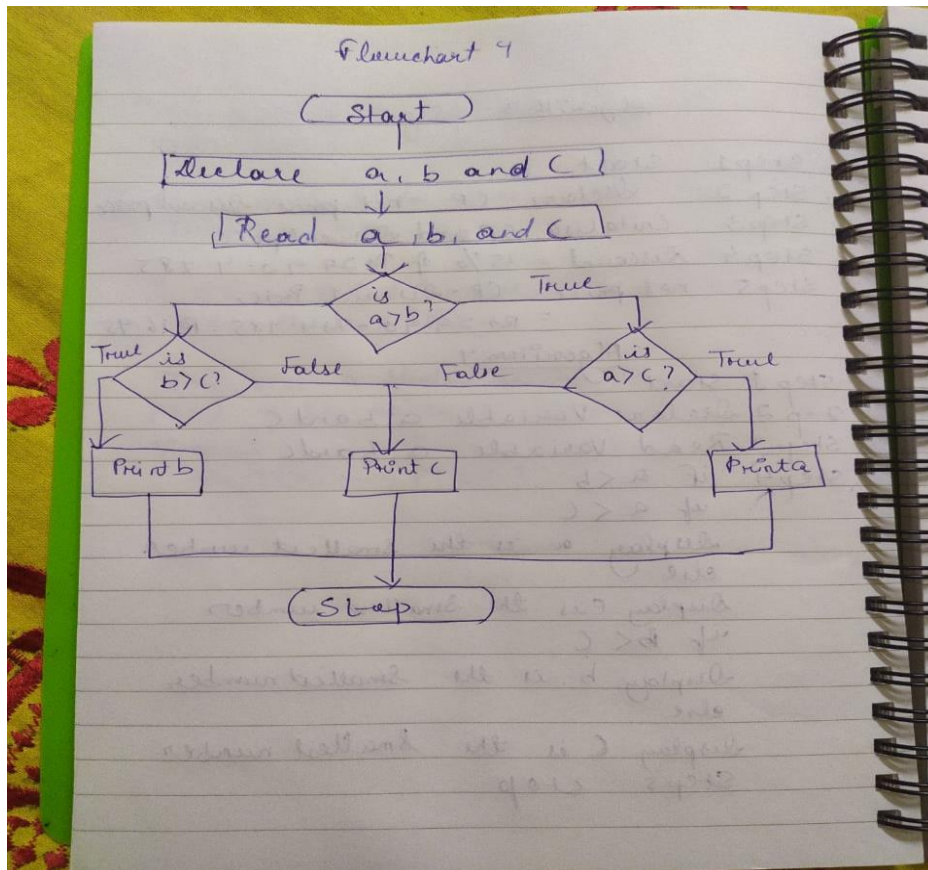
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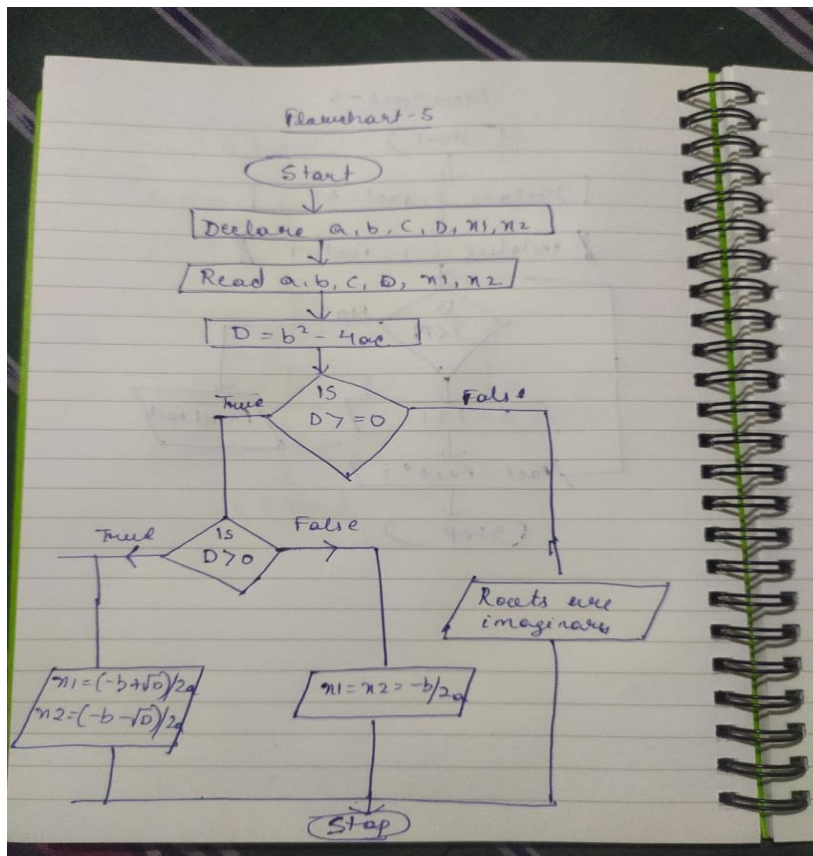
3. you had bought a nice shirt which cost Rs.29.90 with 15% discount. count the net price for the shirt.



4. find the smallest number among three different numbers



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



6. find the factorial of a given number

