ASSIGNMENT 1 ANSWER

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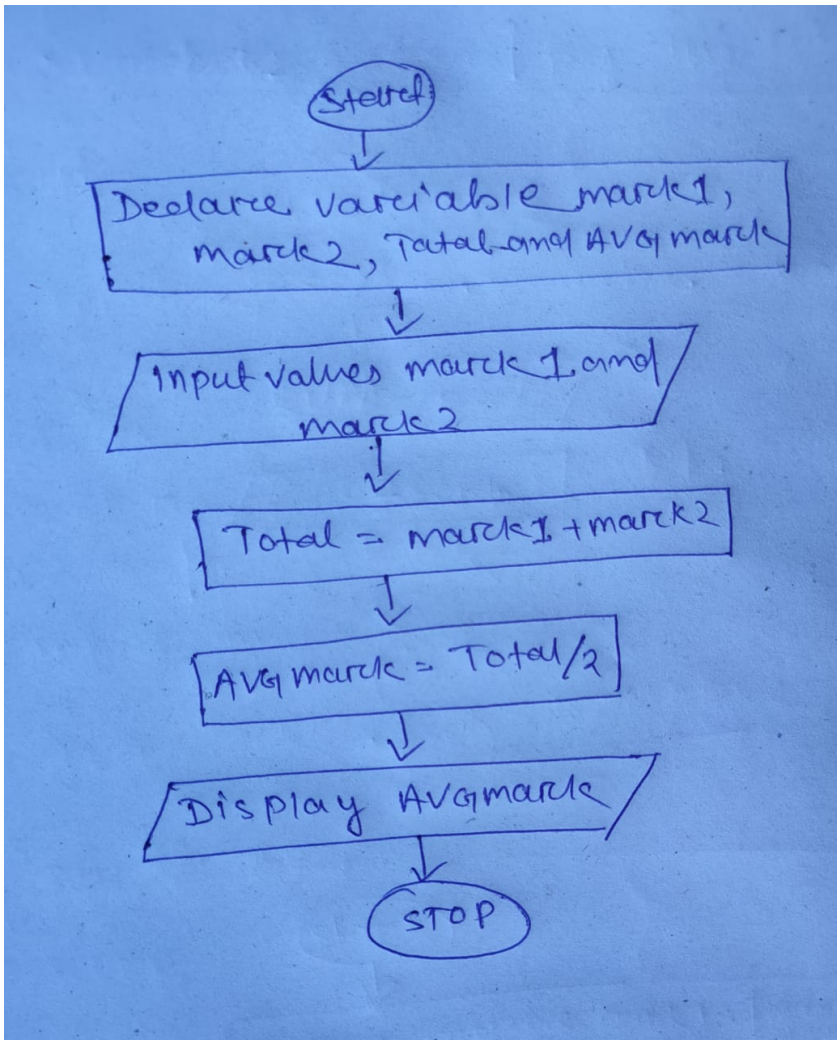
1. Find a student average mark given mark1 and mark2 :-

   Algotirhm :-

   1. Start
   2. Declare variable mark1,mark2, Total and Avg mark
   3. Read values mark1 and mark2
   4. Total = mark1+mark2
   5. Avg mark=Total/2
   5. Display Avg mark
   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 First date , Last date ,charges for 1 day=0.20 , No of dates, Total charge

3. Read the values first date , last date and charges for 1 day=0.20

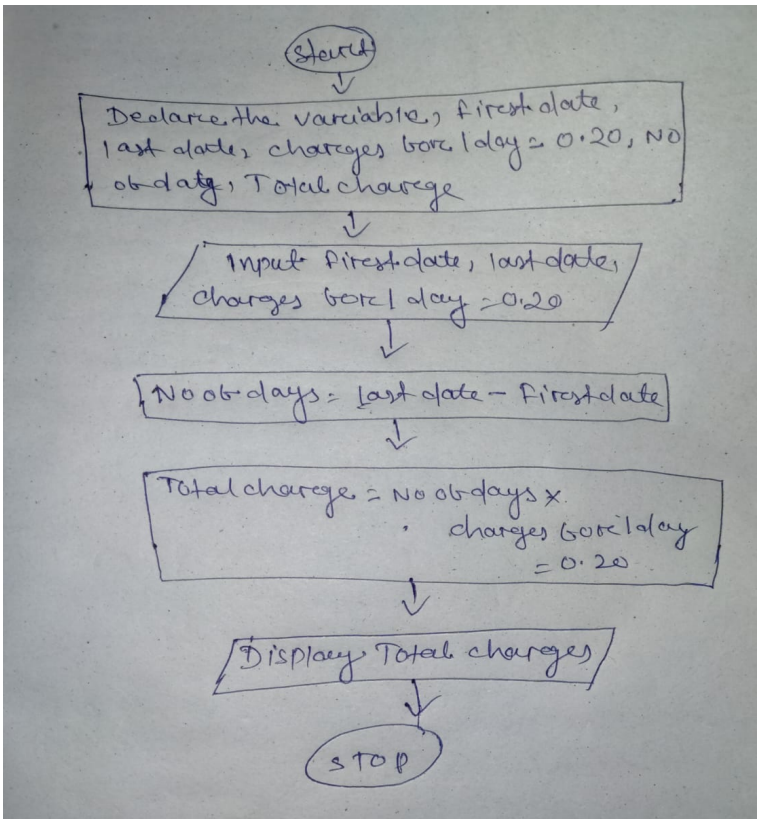
4. No of dates = last date - first date

5. Total charge = no of dates * charges for 1 day

6. Display Total charges

7. Stop

Flowchart :-



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

Algorithm:-

1.Start

2. Declare variable cost, discount = 15%, Netprice, discounted cost

3. Read the values cost , discount

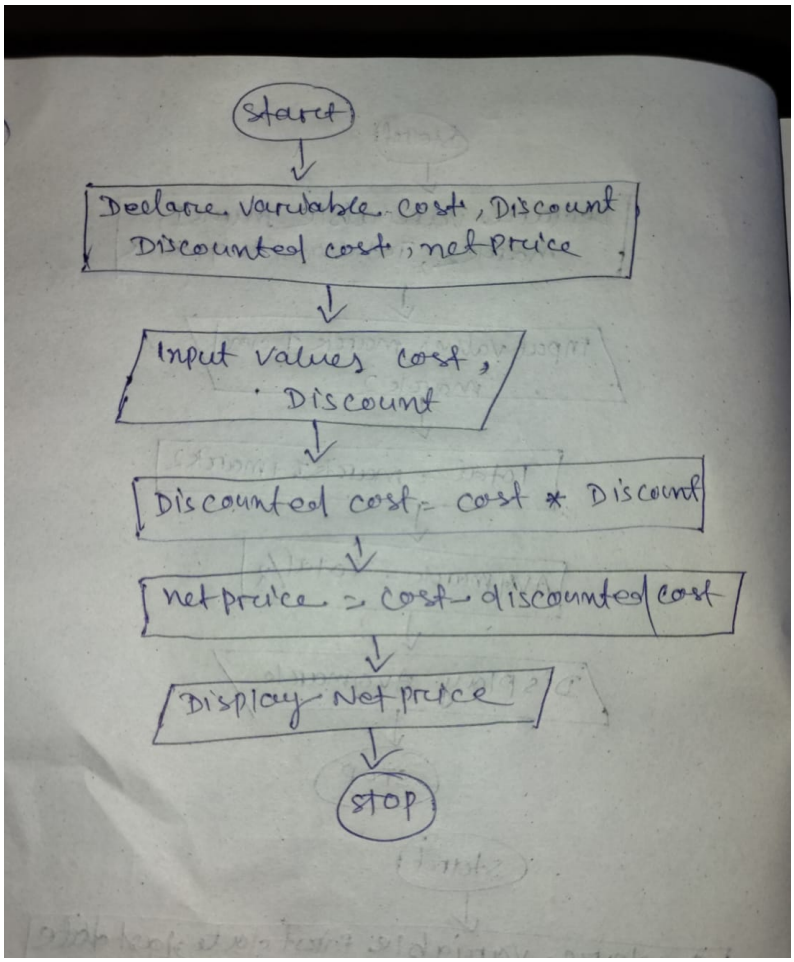
4. Discounted cost = cost * discount

5. Netprice = cost - discounted cost

6. Display Netprice

7. Stop

Flow chart :-



4. Find the smallest number among three different numbers :-

Algorithm :-

1. Start
2. Decare the variable a b and c
3. Read the values a , b , c
4. If a < b

   If a < c

   Display a is smallest

   Else

   Display c is smallest

   Else

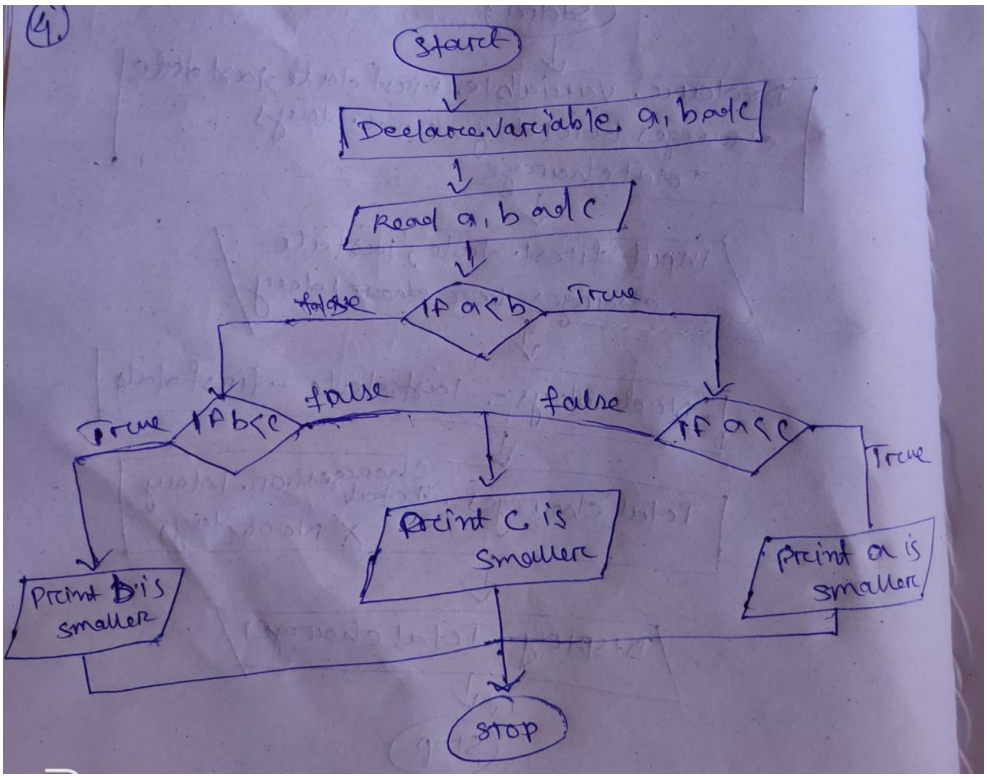
   If b < c

   Display b is smallest

   Else

   Display c is smallest
5. Stop

Flow chart :-

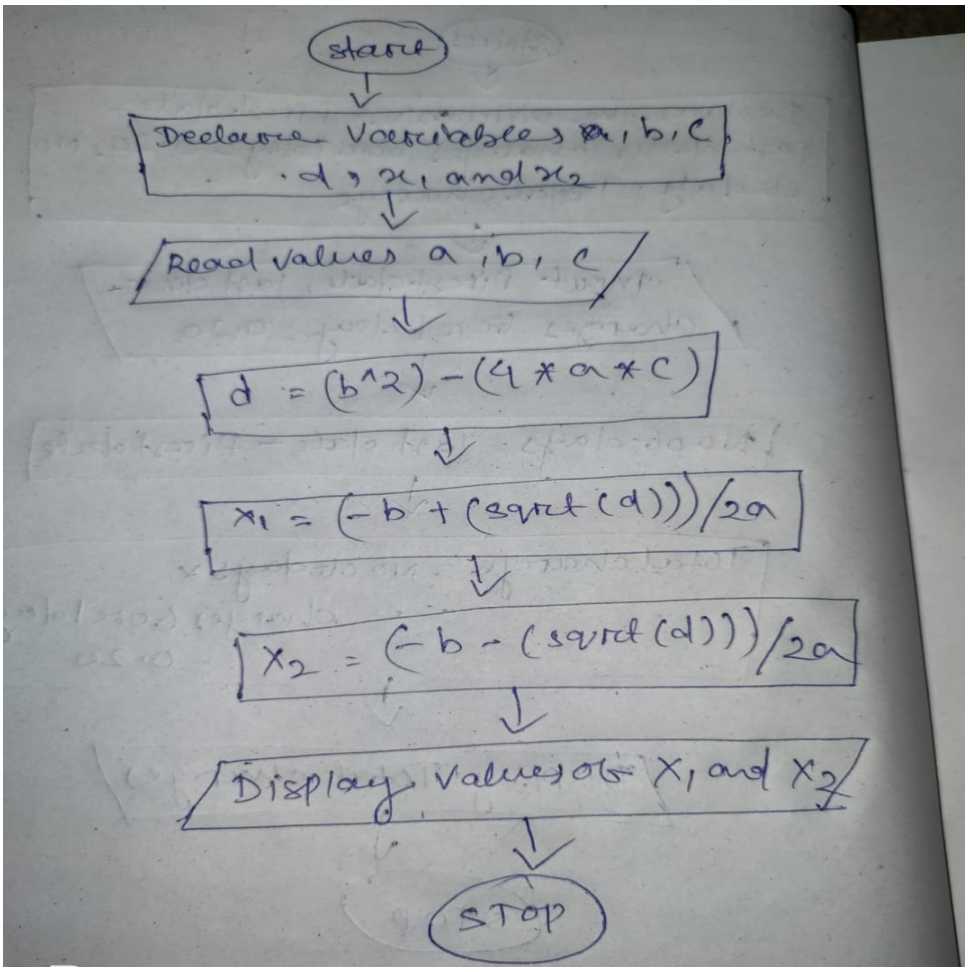


5. Find the Roots of a quadratic equation $ax^2 + bx + c = 0$

Algorithm:-

1. Start
2. Declare variable a ,b,c,d,x1,x2
3. Read values of a , b, c
4. d = (b^2)-4 *a*c
5. x1= (-b + (sqrt(d)))/2a
6. x2=(-b- (sqrt(d)))/2a
7. display the value of x1 and x2
8. Stop

Flowchart:-

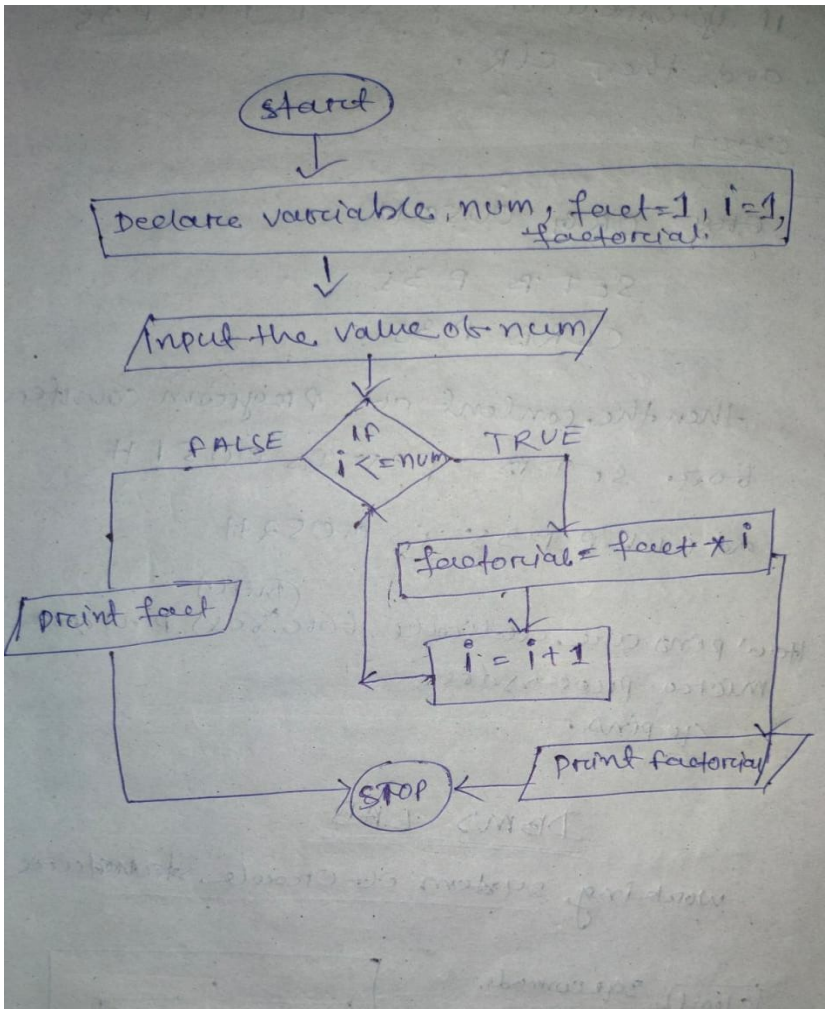


6. Find the factorial of a given number :-

Algorithm :-

1. Start
2. Declare the values of n, Fact,i
3. Read values of n,fact=1,i=1
4. untill(i<=n)
   fact = fact *i
   i=i+1
5. Display Fact
6. Stop

Flowchart:-



OPTIONAL:-

D. get marks for 3 subjects and declare the result. If the marks >= 35 in all the subjects the student passes else fails.

Algorithm:-

1.Start

2.declare values of m1,m2,m2,results

3. input values of m1,m2,m3

4. if (m1>=35)

if (m2>=35)

if (m3>=35)

display result is pass

else

display result is fail

5.Stop

Flowchart:-