ASSIGNMENT- 1 Name- DEVI PRASANNA MISHRA

Q1. Find the average mark given mark1 and mark2.

Step 1: Start

Step 2: Declare variables n1, n2, avg

Step 3: Read values of n1 and n2

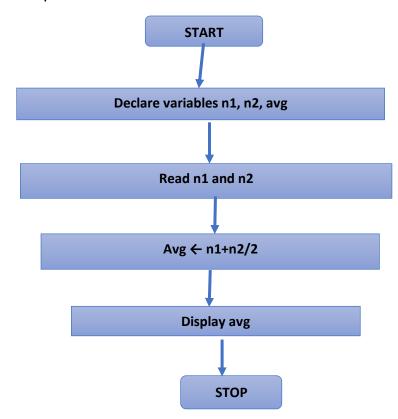
Step 4: Add n1, n2 and divide them with 2

avg → n1+n2/2

Step 5: Store the value in variable avg

Step 6: Print the value of variable avg

Step 7: 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 variables days, total fine

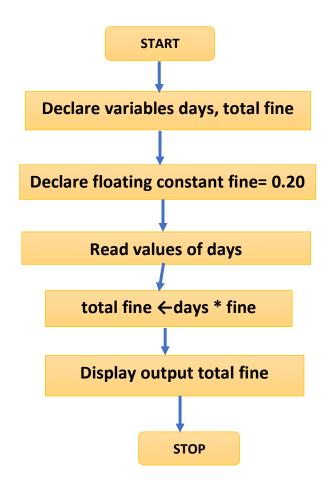
Step 3: Declare floating constant fine= 0.20

Step 4: Read values of days

Step 5: Multiply days with fine total fine ←days * fine

Step 6: Store the value in total fine

Step 7: Print the value of total fine



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 the floating variables price, discount

STEP 3: Declare the floating variable discount cost, final amount

STEP 4: Read the value of price and discount

STEP 5: Multiply price with discount discount_cost← price*discount

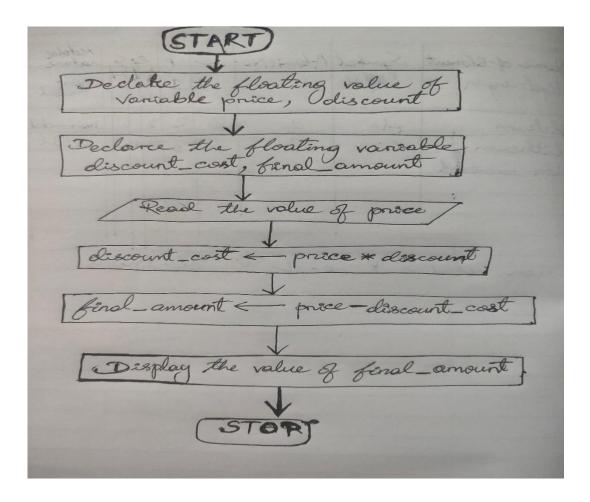
STEP 6: Store the value in discount cost

STEP 7: Subtract price with discount_cost final_amount ← price – discount_cost

STEP 8: Store the value in final_amount

STEP 9: Print the value of final_amount

STEP 10: Stop



4. Find the smallest number among three different numbers.

STEP 1: Start

STEP 2: Declare three variable a, b, c

STEP 3: Compare a with b and c. If a is smaller than b and c than a is smallest

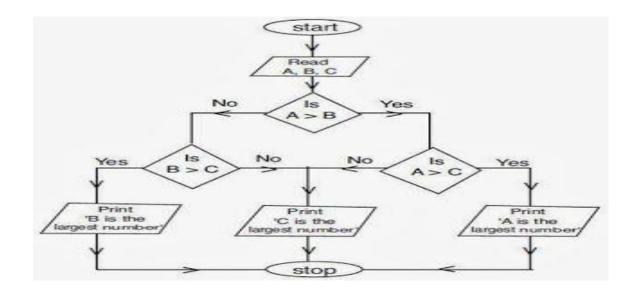
among three numbers

STEP 4: Compare b with a and c. if b is smaller than a and c than b is smallest

among three numbers

STEP 5: Else c is smallest among three numbers

STEP 6: STOP



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

STEP 1: Start

STEP 2: Enter the value of a, b and c

STEP 3: After getting these values, the program calculates the value of discriminant, dis= b^2 -4ac

STEP 4: It checks the value of discriminant whether it is less than zero or greater than zero

STEP 5: If the dis< 0, the roots are imaginary

r1 = -b/2a + Vdis*i/2a

r1 = -b/2a - Vdis*i/2a

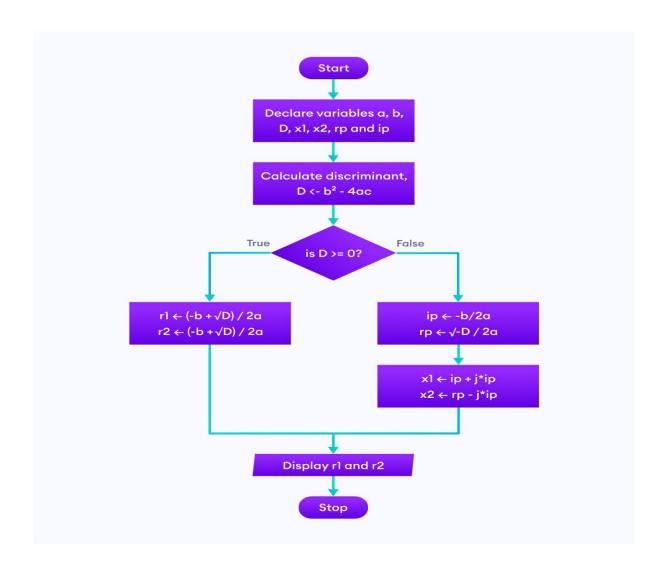
STEP 6: Otherwise, there exist two real roots: r1 and r2

r1 = (-b + Vdis)/2

r2 = (-b - Vdis)/2

STEP 7: displays the roots as output

STEP 8: STOP



6. Find the factorial of a given number

- step 1. Start
- step 2. Read the number n
- step 3. [Initialize]
 - i=1, fact=1
- step 4. Repeat step 4 through 6 until i=n
- step 5. fact=fact*i
- step 6. i=i+1
- step 7. Print fact
- step 8. Stop

