

Rehab Khawir

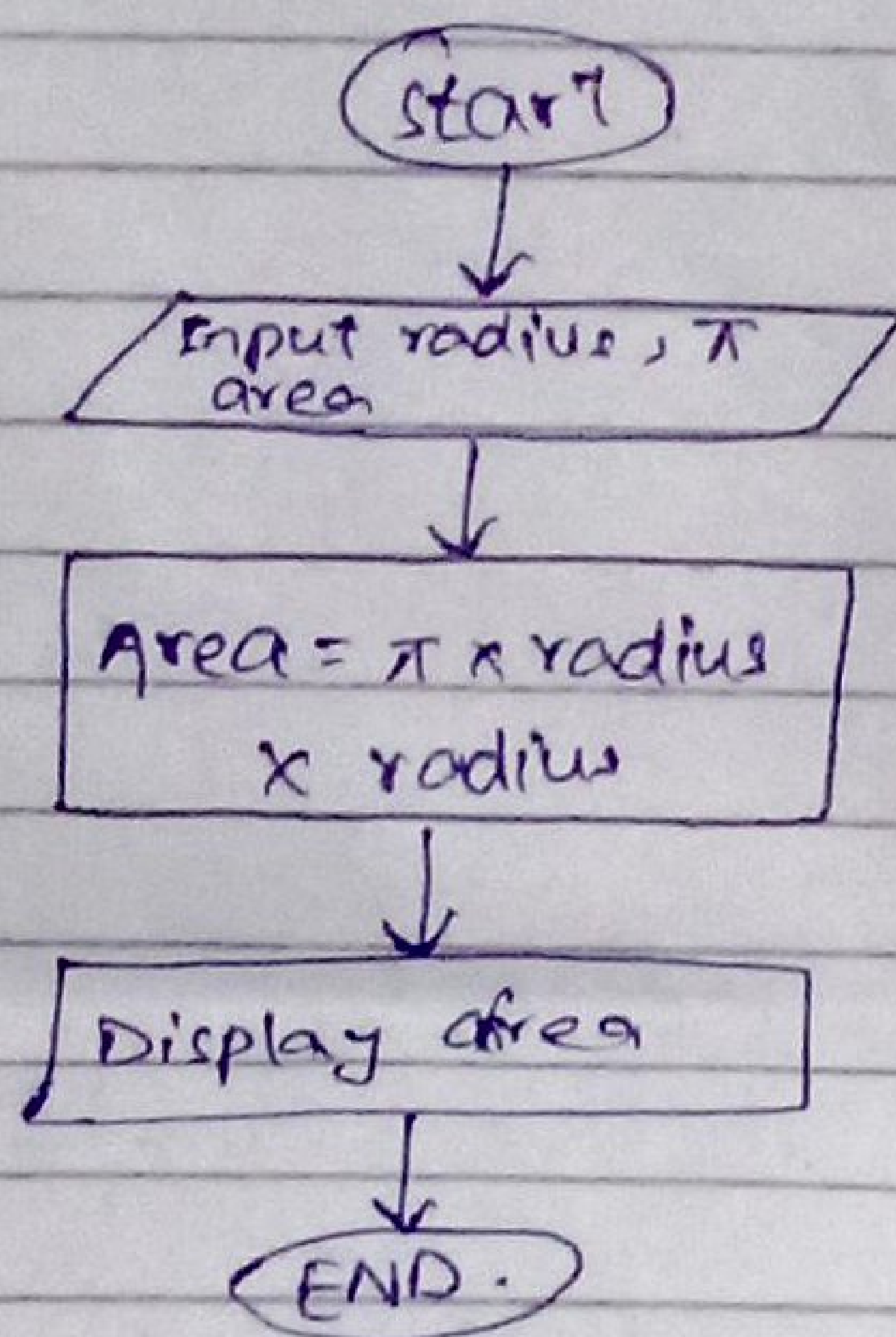
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08.5

Task 1

- ① Make a flowchart with pseudo-code
"area = $\pi \times \text{radius}^2$ "

flowchart



Pseudo-code.

Step 1:- Start

Step 2:- Input radius, area, π

Step 3:- multiply π with radius square.

Step 4:- Display area

Step 5:- End.

✓

Task ②

- ② Create flowchart and pseudo-code for program that calculates and displays the average of three numbers.

The average of the three numbers using the formula
$$\text{Average} = (\text{Num 1} + \text{Num 2} + \text{Num 3}) / 3$$

Pseudo-code.

Step 1:- Start

Step 2:- Input 3 numbers num1, num2, num3.

Step 3:- Add 3 numbers num1 + num2 + num3

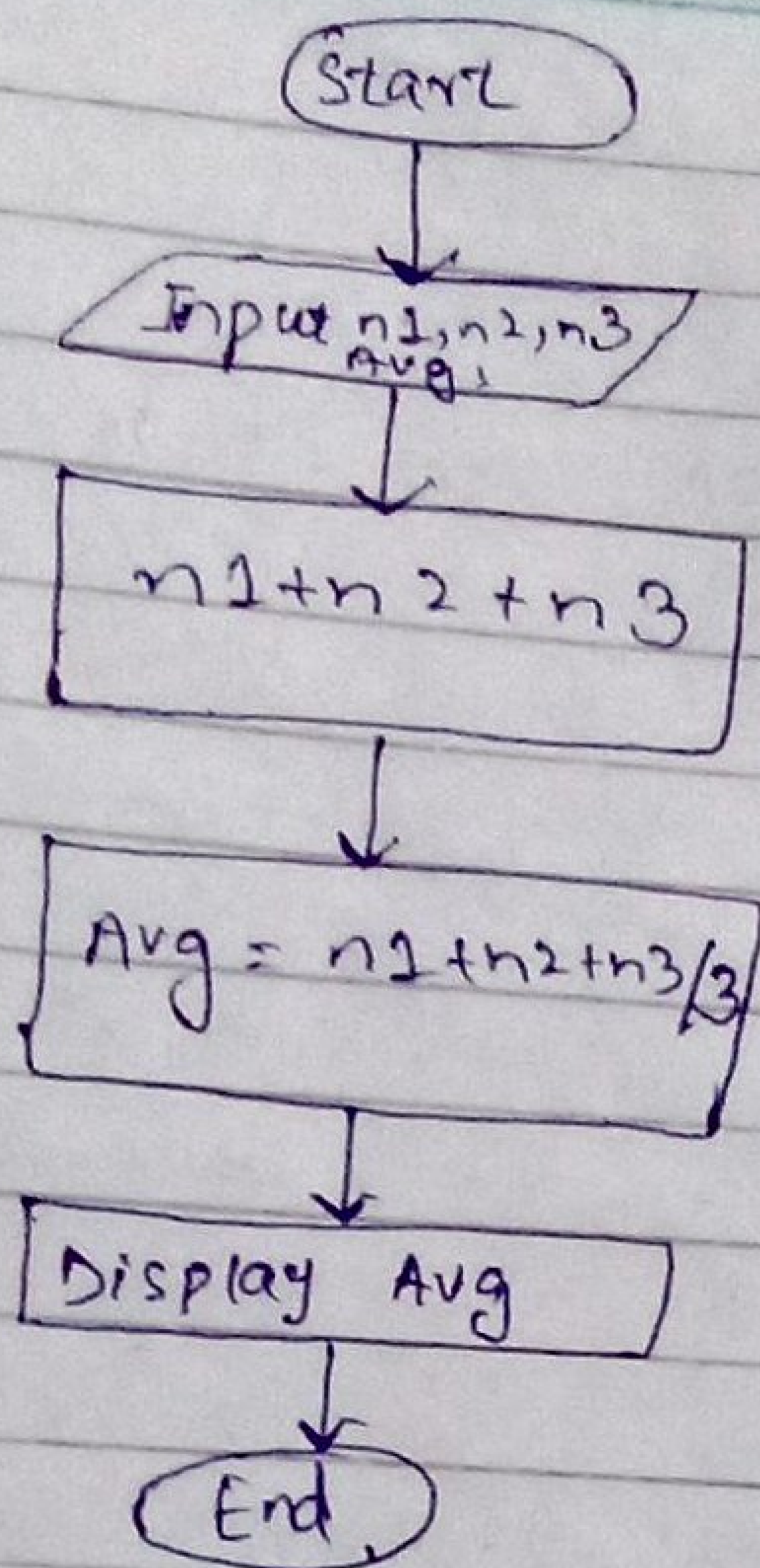
Step 4:- Divide the sum of 3 number by 3

Step 5:- Display Average.

Step 6:- End.

✓

Flowchart



Task 3 :-

Give the expression $x = y * 2 - z / 3$ where, y and z are equal to 5, calculate the value of x

$$x = y * 2 - z / 3$$

put value of y and z where y and z are equal to 5

$$x = 5 * 2 - 5 / 3$$

$$x = 5 * 2 - 1$$

$$x = 10 - 1 \Rightarrow x = 9$$

Task 4 :-

$$((12 - 3) * 4 / 2 + 5) \&\& (3 < 4 || 7 > 8)$$

$$(9 * 4 / 2 + 5) \&\& (3 < 4 || 7 > 8)$$

$$(9 * 2 + 5) \&\& (3 < 4 || 7 > 8)$$

$$(18 + 5) \&\& (3 < 4 || 7 > 8)$$

$$23 \&\& 3 < 4 || 7 > 8$$

$$23 \&\& \text{True} \&\& \text{False} \Rightarrow 23 \&\& \text{True}$$

~~$$23 \&\& \text{False}$$~~

$$23 \text{ is False.}$$

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$$((8 * 2) / 4 + (10 \% 3)) \parallel (6 == 6 \&\& 3 > 2) \quad 3/16$$

$$(16 / 4 + (10 \% 3)) \parallel (6 == 6 \&\& 3 > 2)$$

$$(16 / 4 + 1) \parallel (6 == 6 \&\& 3 > 2) \quad \textcircled{1}$$

$$(4 + 2) \parallel (6 == 6 \&\& 3 > 2)$$

$$5 \parallel (6 == 6 \&\& 3 > 2)$$

$$5 \parallel \text{False} \quad \text{True}$$

$$5 \parallel \text{False} \quad \text{True}$$

$$5 \text{ is } \text{True}$$