

24k-0001

FP

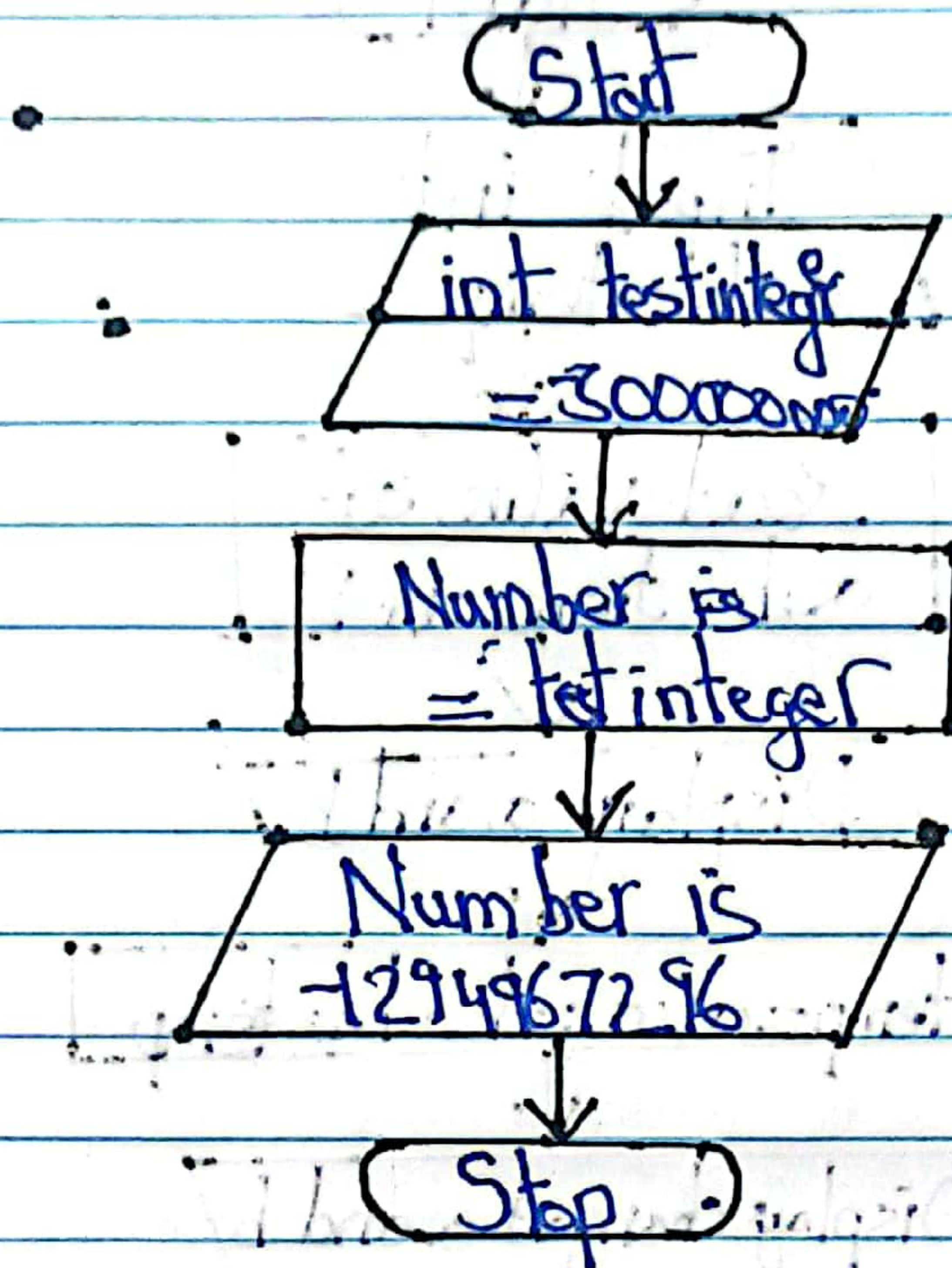
Lab: 3

M. masoom

khan

Q1

Flowchart

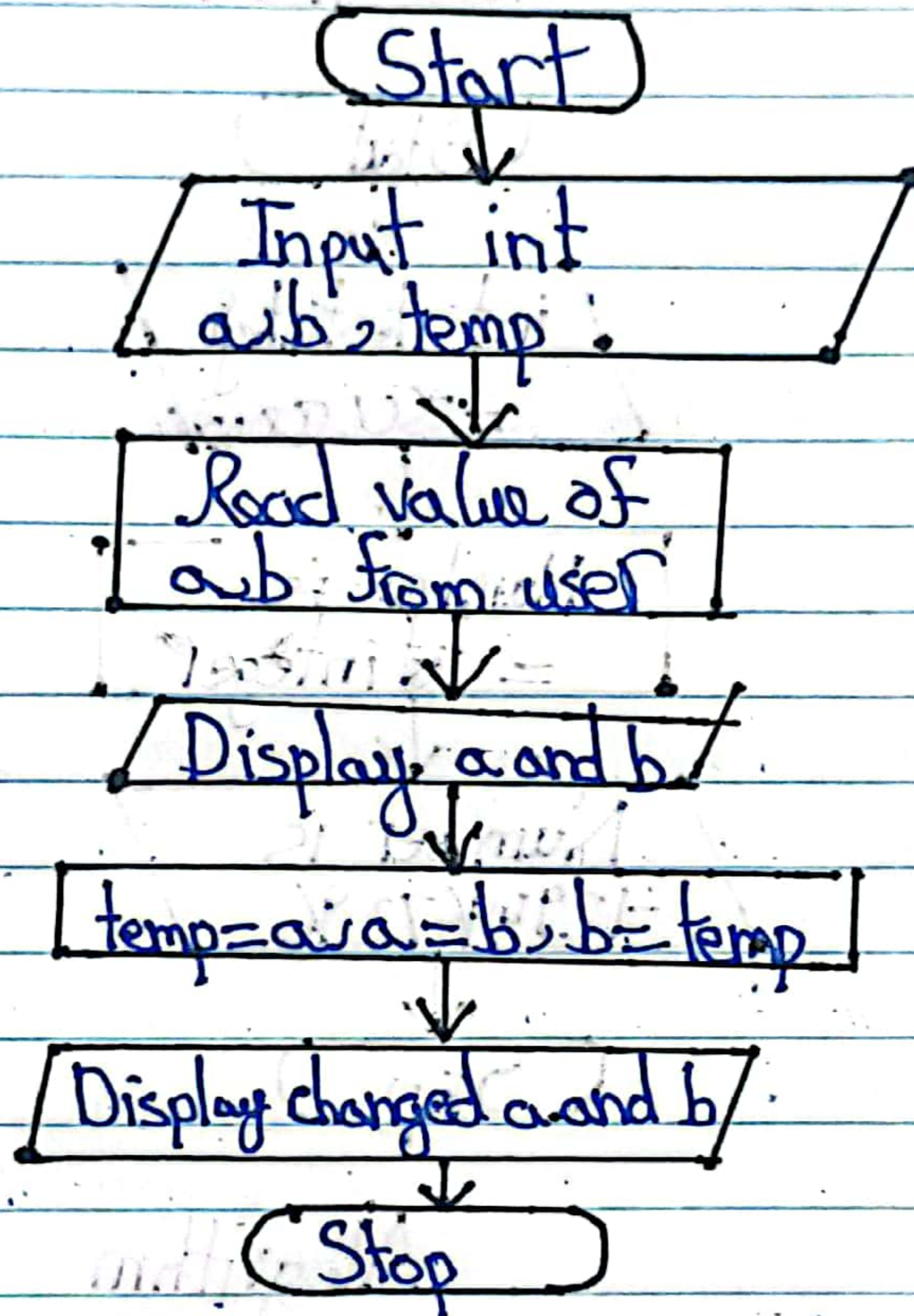


Algorithm

- 1 Start
- 2 Input testinteger = -3000000000
- 3 Output testinteger = -21471294967296
 // This is because variable int can only store values between -2,147,483,647 and +2,147,483,647
- 4 Stop

Q2

Flowchart



Algorithm

- 1 Start
- 2 Input integer a, b.
- 3 Read value of a and b placed by the user.
- 4 Show the value a and b input by user.
- 5 Take another integer temp such that
temp = a, a = b, b = temp this swaps the value of a and b
- 6 Display new values of a and b
- 7 Stop

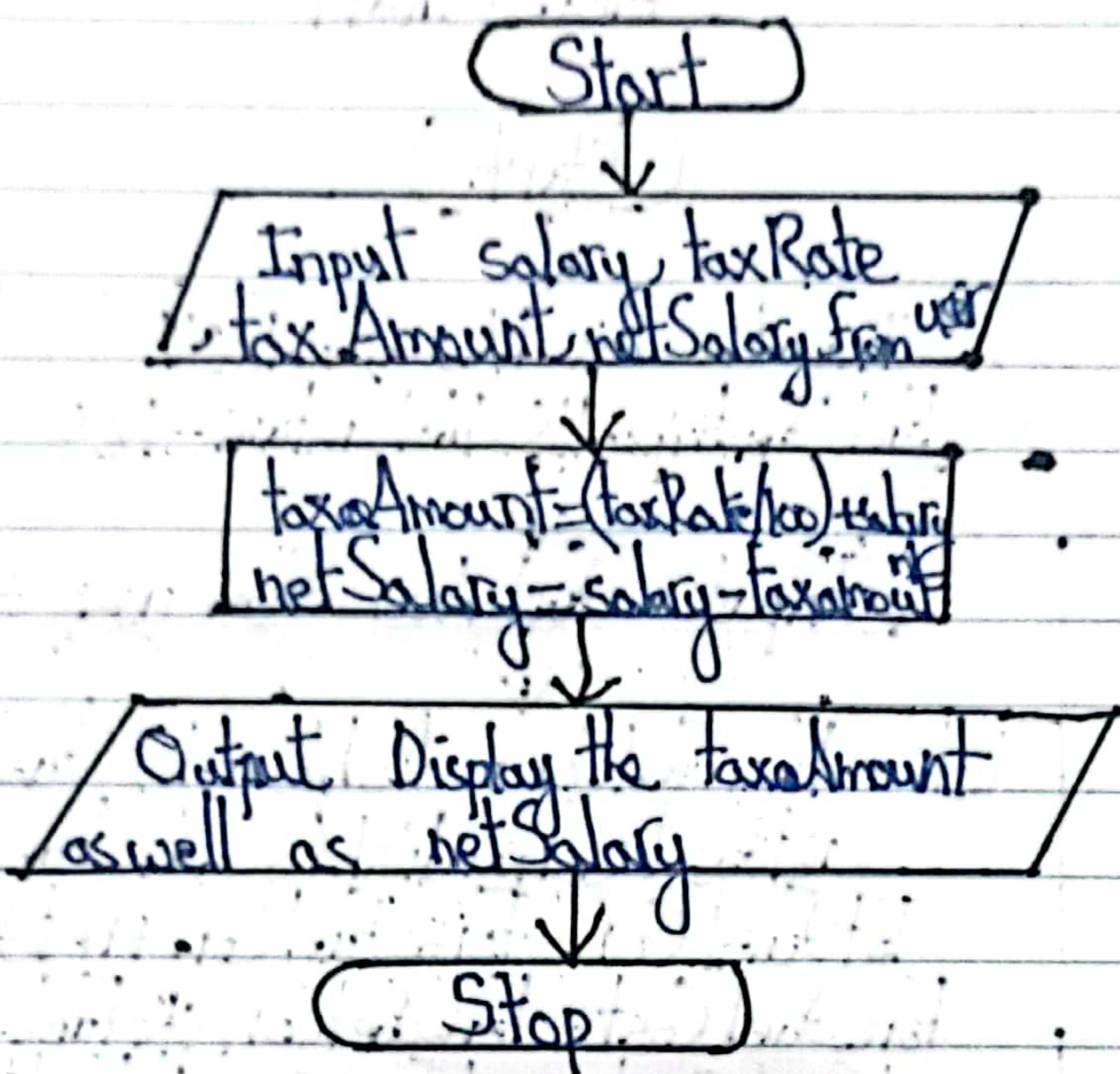
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Q3

Flowchart



Algorithm

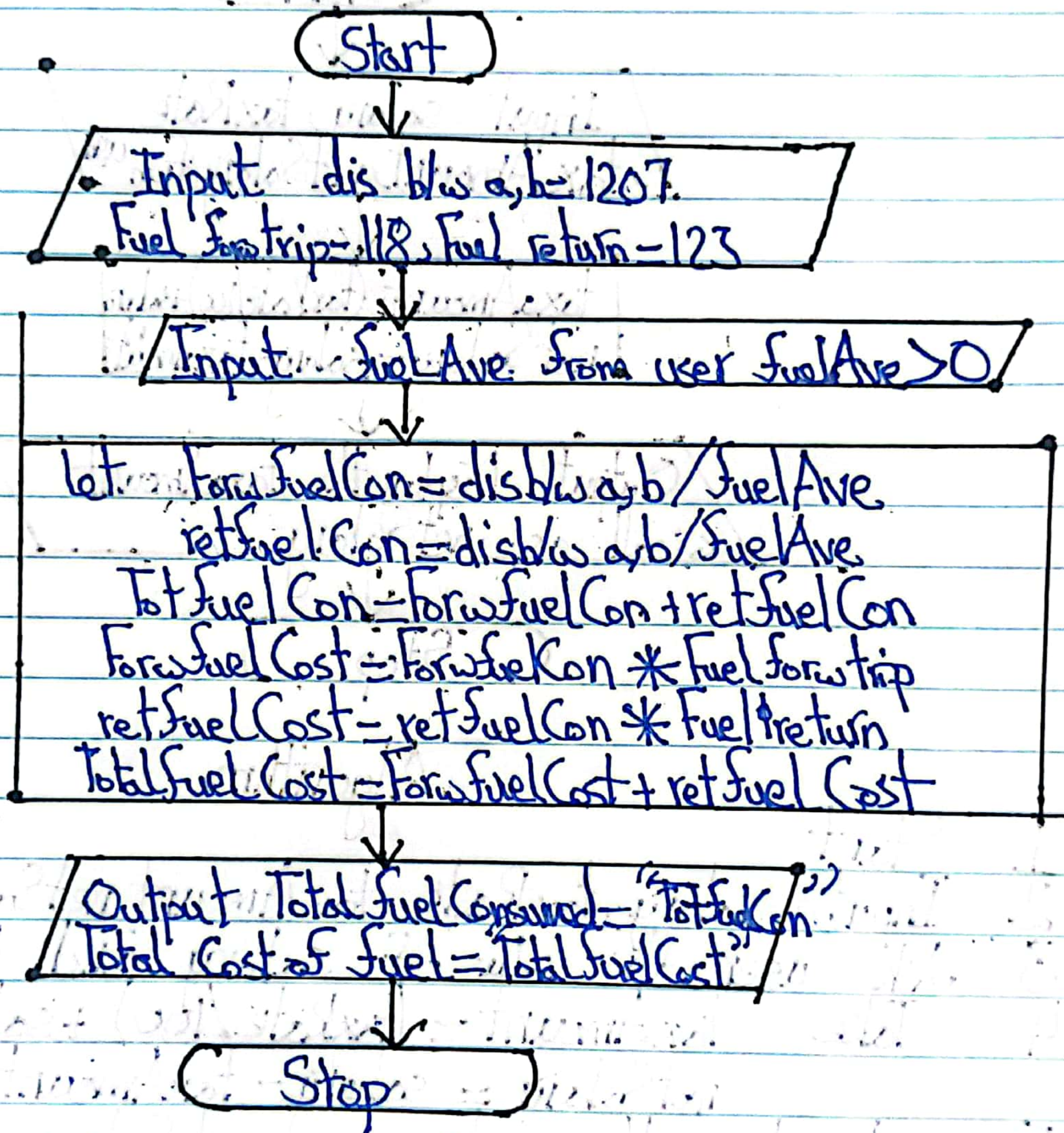
- 1 Start
- 2 Input salary, taxRate, taxAmount, netSalary
- 3 Ask user for value of salary and taxRate
- 4 Take $\text{taxAmount} = (\text{taxRate}/100) \times \text{salary}$
 $\text{netSalary} = \text{salary} - \text{taxAmount}$
- 5 Display the value of netSalary and taxAmount
as output.
- 6 Stop

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Date: / /

Q4

Flow Chart



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Q4

How

Algorithm

- 1 Start
- 2 Input values of distance between point a and b,
Fuel price forward trip and Fuel price return trip.
- 3 Input value of Average Fuel from user and $\text{AverageFuel} > 0$.
- 4 Take variables Forward Fuel Consumed, Return Fuel
Consumed, Total Fuel Consumed, Forward Fuel Cost, Return Fuel
Cost and Total Fuel Cost.
- 5 Processing
 $\text{Forward Fuel Consumed} = \text{distance between a and b} / \text{AverageFuel}$
 $\text{Return Fuel Consumed} = \text{distance between a and b} / \text{AverageFuel}$
 $\text{Total Fuel Consumed} = \text{Forward Fuel Consumed} + \text{Return Fuel Consumed}$
 $\text{Forward Fuel Cost} = \text{Forward Fuel Consumed} * \text{Fuel price forward trip}$
 $\text{Return Fuel Cost} = \text{Return Fuel Consumed} * \text{Fuel price return trip}$
 $\text{Total Fuel Cost} = \text{Forward Fuel Cost} + \text{Return Fuel Cost}$
- 6 Display Total Fuel Consumed and Total Fuel Cost
as output.
- 7 Stop

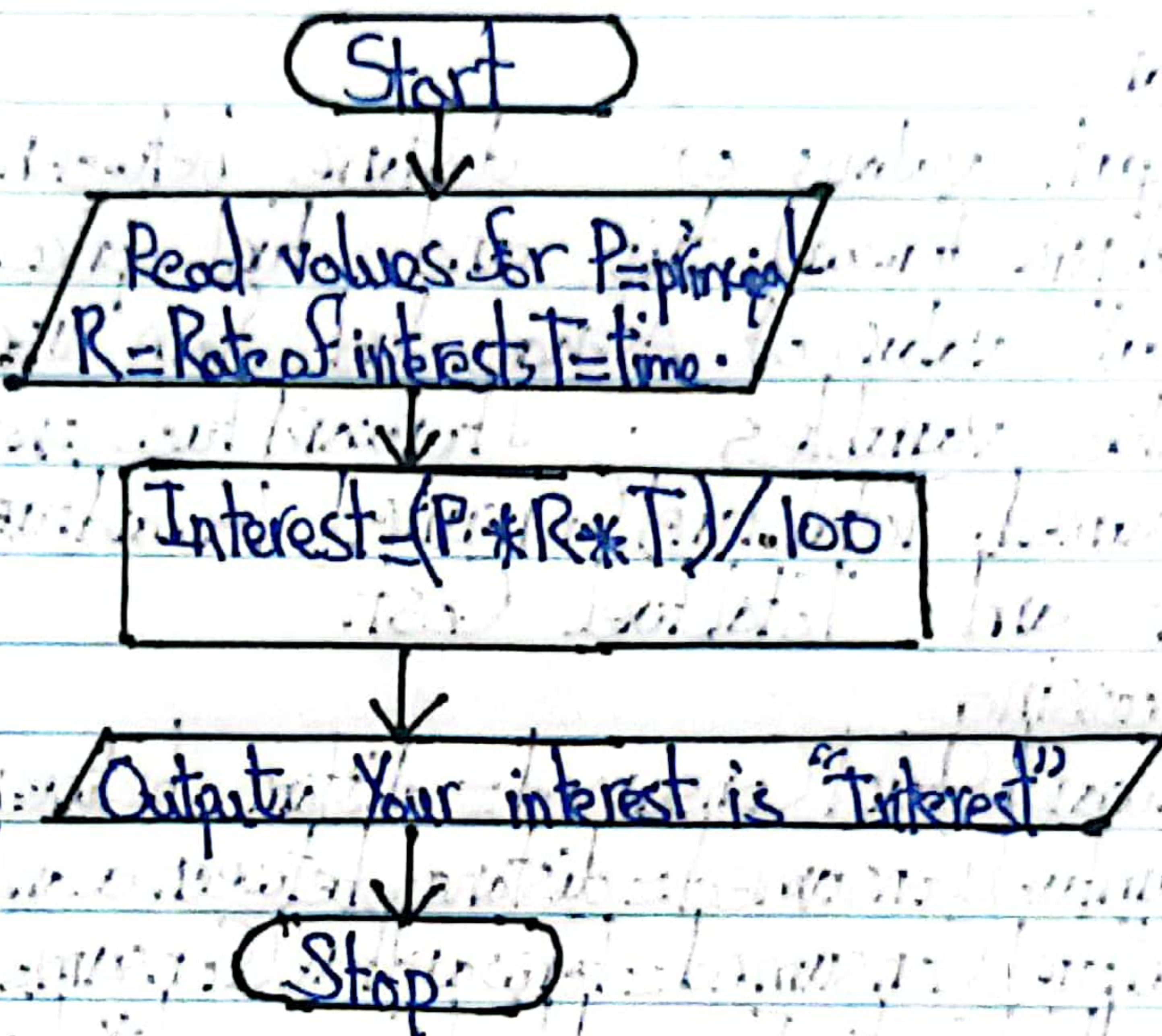
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Q5

Flowchart



Algorithm

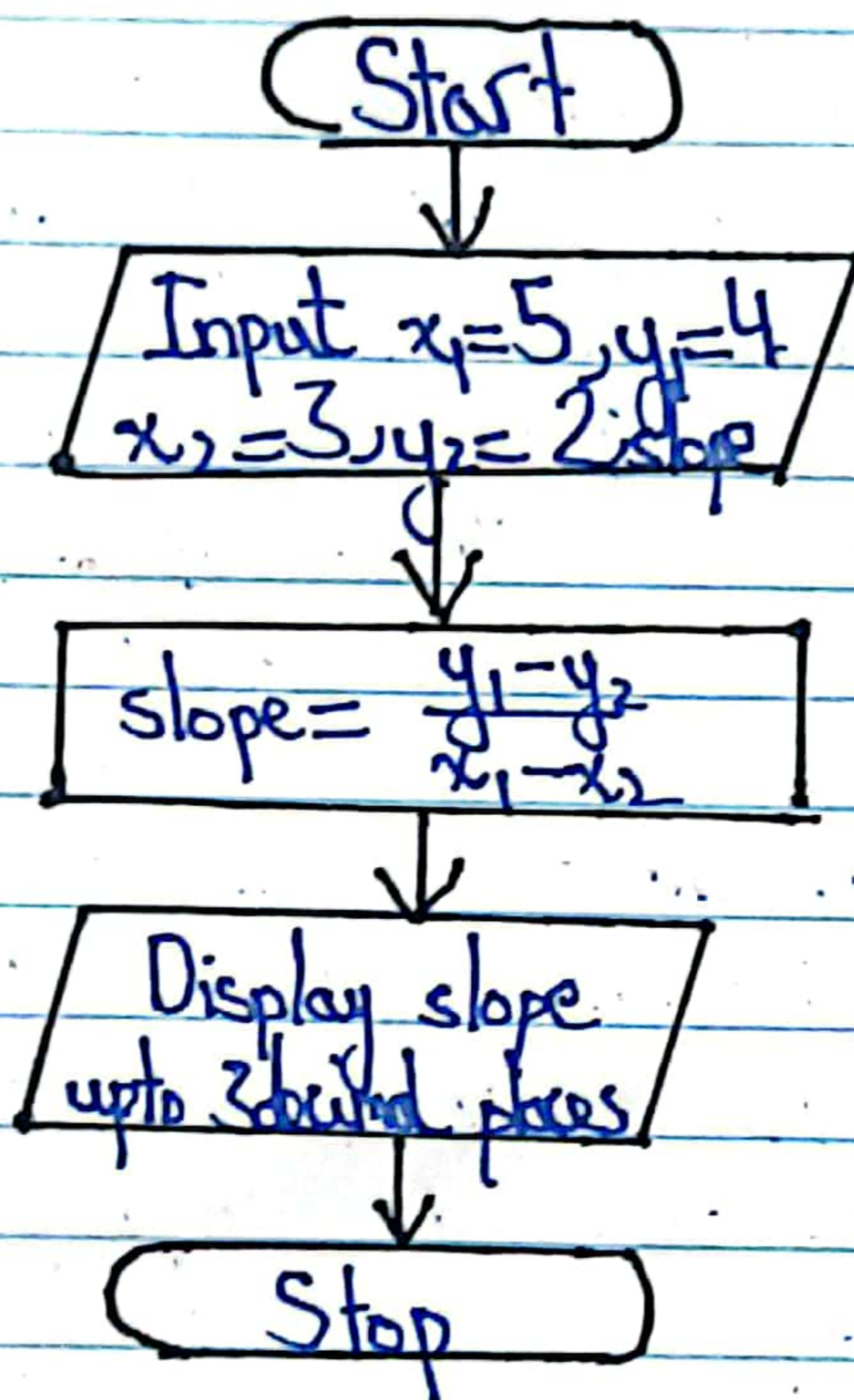
- 1 Start
- 2 Input value of principal, int. rate of interest and time period from user.
- 3 let $100 < \text{principal} < 1000,000$,
 $5\% < \text{rate of interest} < 10\%$,
 $1 < \text{time period} < 10$
- 4 Calculate $\text{interest} = \text{principal} * \text{rate of interest} * \text{time period}$
- 5 Display value of interest as output
- 6 Stop

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Q6

Flowchart



Algorithm

- 1 Start
- 2 Input values of x and y coordinates of points
 $x_1=5, y_1=4, x_2=3, y_2=2$
- 3 Calculate $\text{slope} = \frac{y_1 - y_2}{x_1 - x_2}$
- 4 Display value of slope to 3 decimal places as output
- 5 Stop.