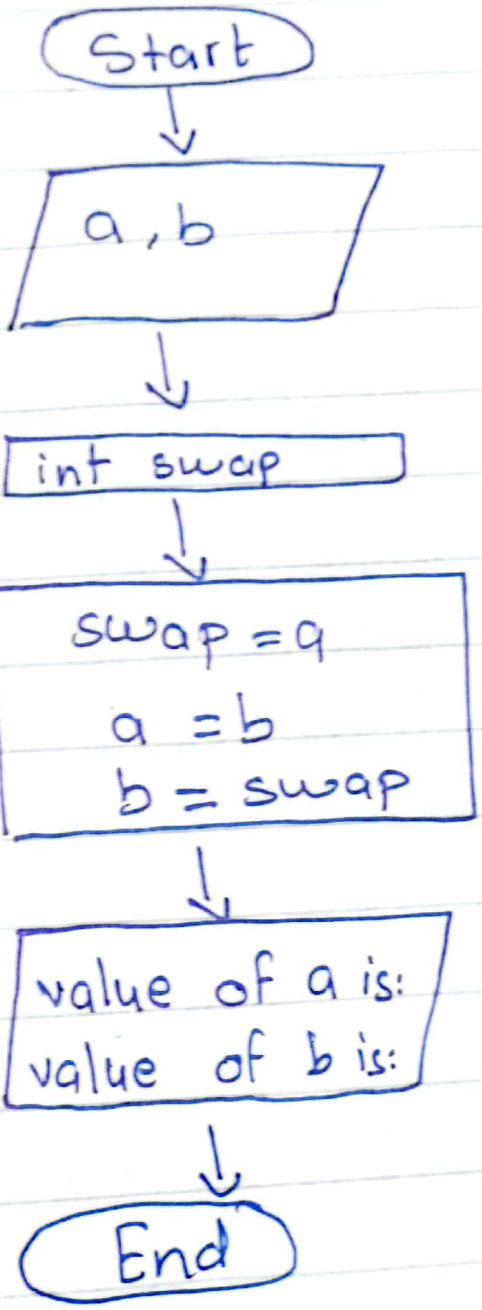
Q2:



Pseudocode

1. Start

2. // Input two values
   Enter a
   Enter b

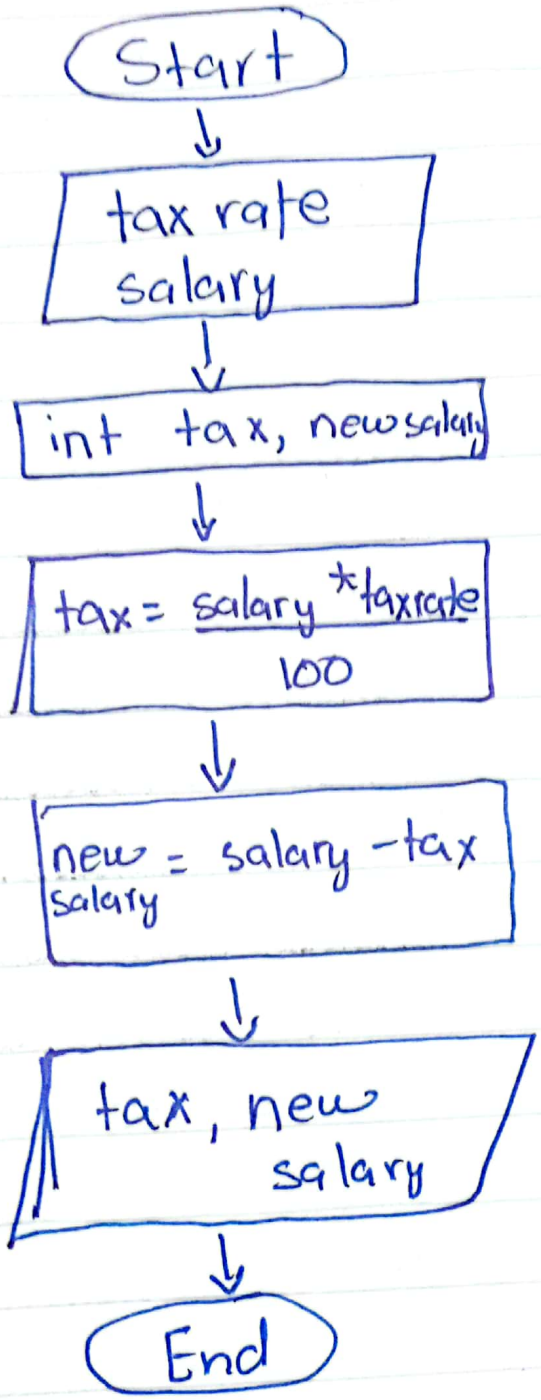
3. // Declare an integer swap
   int swap;

4. // swap values
   swap = a;
   a = b;
   b = swap;

5. // Display the answer
   "Value of a now is: "
   "Value of b now is: "

6. End.

Q3:



Pseudo code

1. Start
2. // Enter tax rate & salary
   Input tax rate.
   Input Salary.

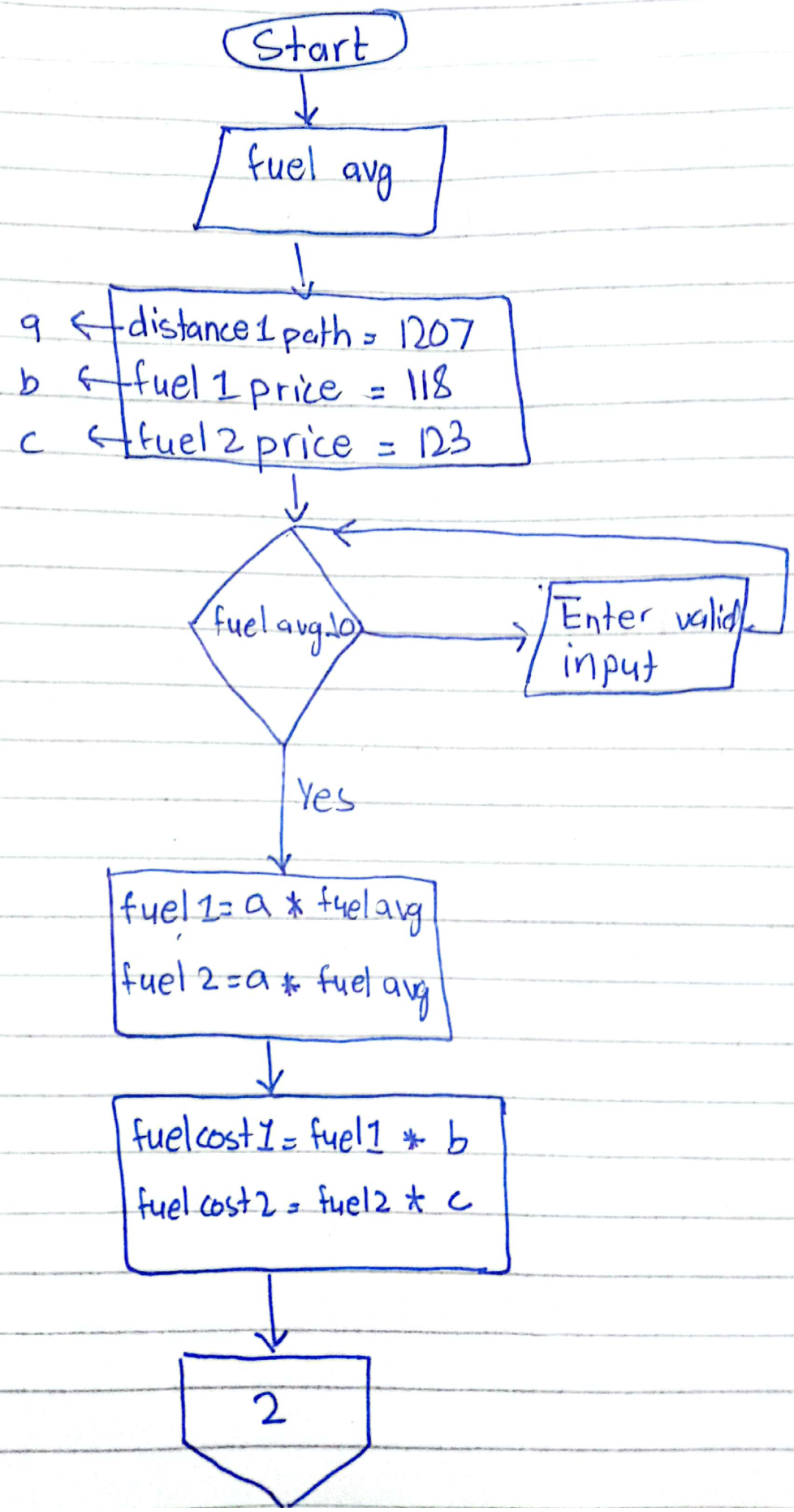
3. // calculate tax
   $tax = \frac{tax\ rate * salary}{100}$

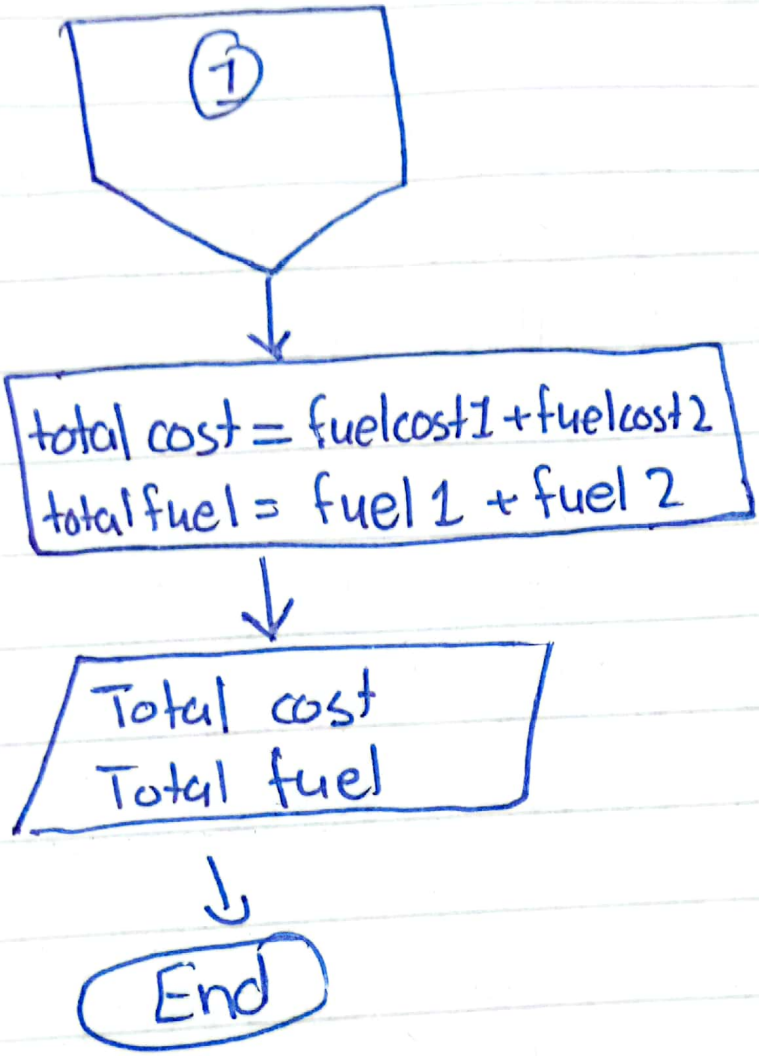
4. // calculate new salary
   new salary = salary - tax

5. // Display tax & new salary
   The tax is:
   "The new salary is:"

6. End

Q4:





Pseudocode

1. Start
2. // Ask for inputting fuel avg
   while (fuel_avg > 0)
   print: " Input positive number."

3. // initialisation
   a ← distance1 path = 1207 Km
   b ← fuel 1 price = 118 Rs /L
   c ← fuel 2 price = 123 Rs/L

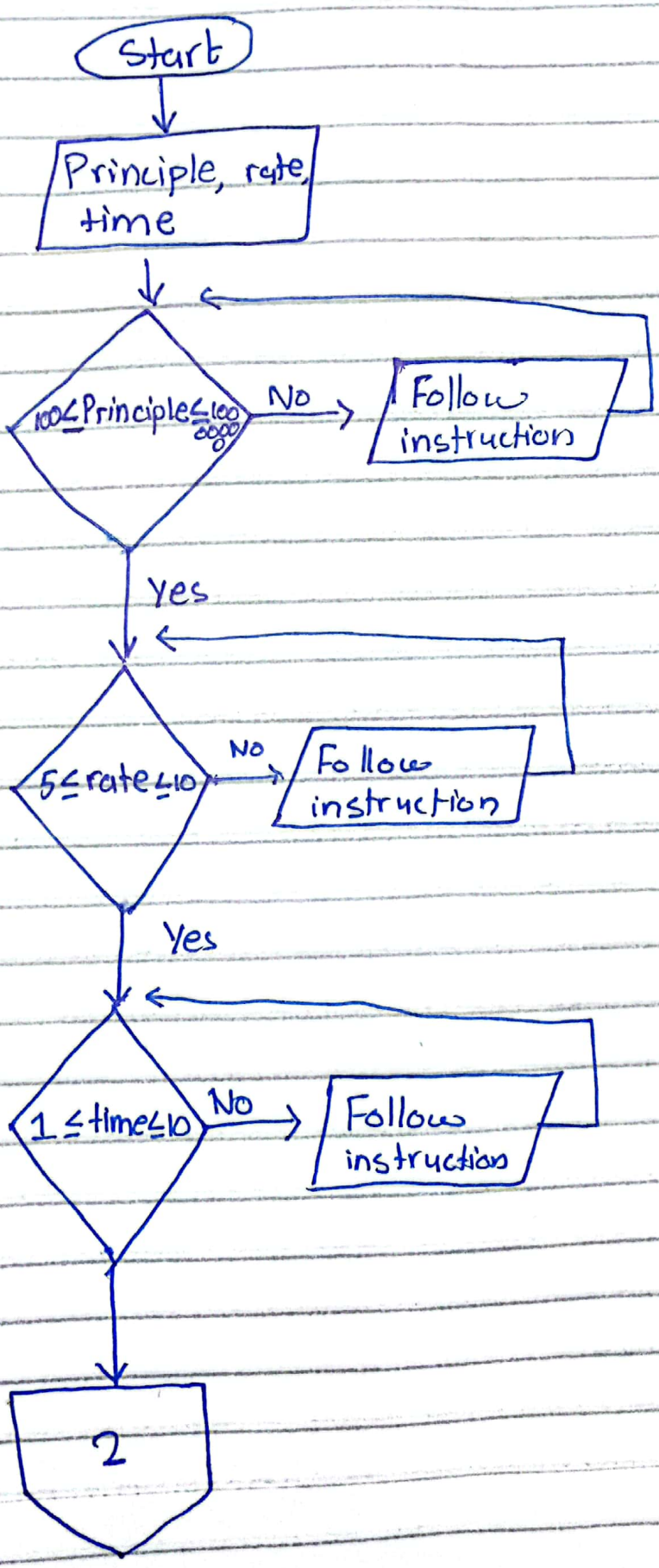
4. // finding avg fuel consumed in both direction
   fuel1 = a * fuel avg
   fuel 2 = a * fuel avg

5. // find cost of avg fuel in both direction
   fuel cost 1 = fuel 1 * b
   fuel cost2 = fuel 2 * c

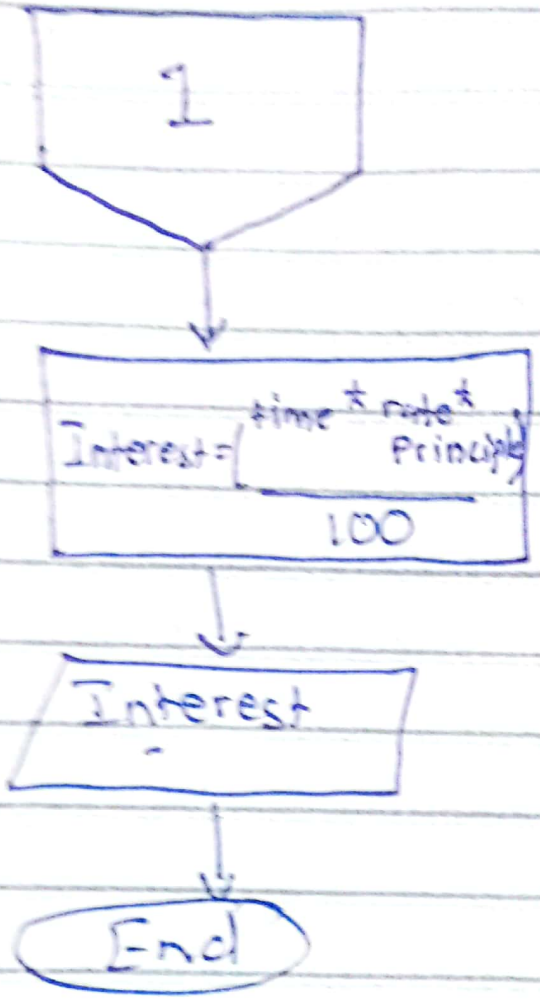
6. // Now, for total cost
   Total cost = fuel cost 1 + fuel cost 2
   Display: "Total cost."
7. // Now, for total fuel
   total fuel = fuel 1 + fuel 2
   Display: " total fuel."

8. End

Q5:



(2)



Pseudocode:

1. Start.
2. // Enter principle
   Input principle
   while (principle ≤ 100 || principle ≥ 1000000)
   print: " Invalid Input."

3. // Enter rate
   Input rate
   while (rate ≤ 50 || rate ≥ 5)
   Print: " Invalid Input."

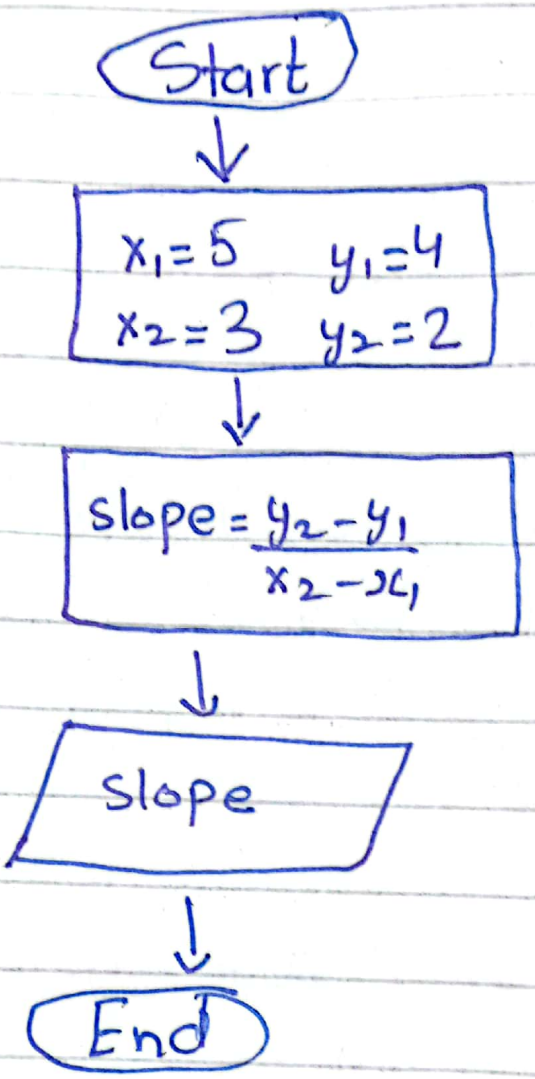
4. // Enter time
   Input time
   while (time ≤ 10 || time ≥ 1)
   print: " Invalid Input."

5. // calculate Interest
   Interest = (Principle * time * rate) ÷ 100

6. // Print output
   "The simple interest is: "

7. End

Q 6:



Pseudocode

1. Start
2. // Declare variable
   float $x_1 = 5$, $y_1 = 4$, $x_2 = 3$, $y_2 = 2$;
3. // calculate slope
   $$\text{slope} = \frac{(y_2 - y_1)}{(x_2 - x_1)}$$
4. // Display slope
   "The value of slope is: 1"
5. End