day/date

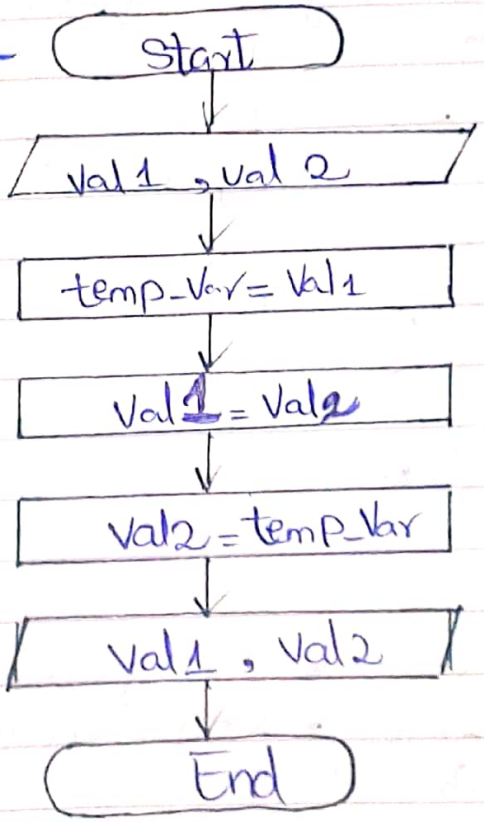
Question one

Reason:-

The reason for displaying wrong value is that in a program very long integer is stored in an "int" which can only store data upto 4 bits.

Question 2:-

Flowchart:-



Pseudocode:

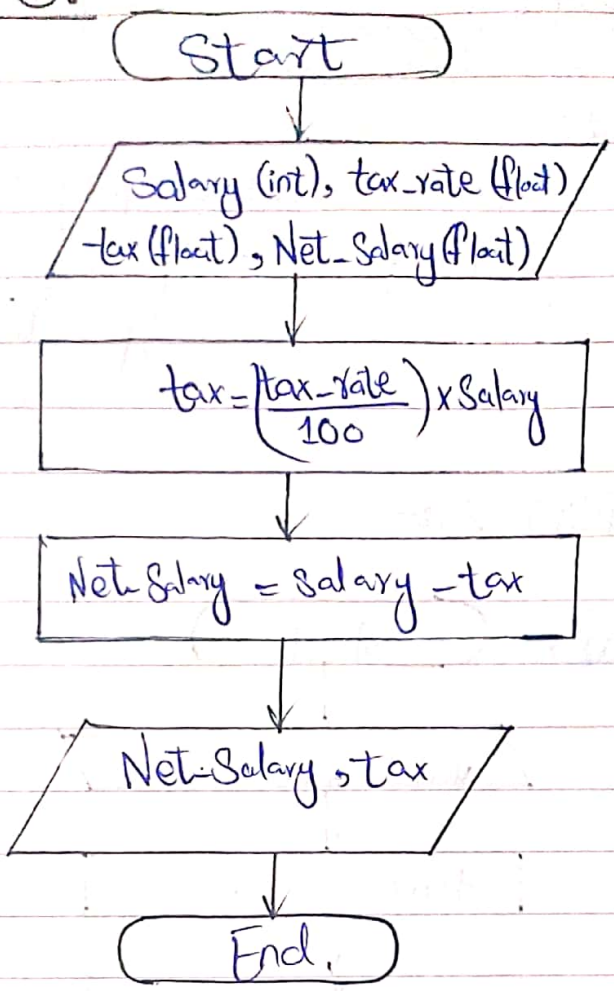
- Start.
- Initializing two variables.
- reading two values and set to variables.
- set 1st value to new variable "temp_Var".
- Set 2nd value to first variable and temp.Var to first variable
- display variables

BingO!

day/date

Question 3:

Flowchart-



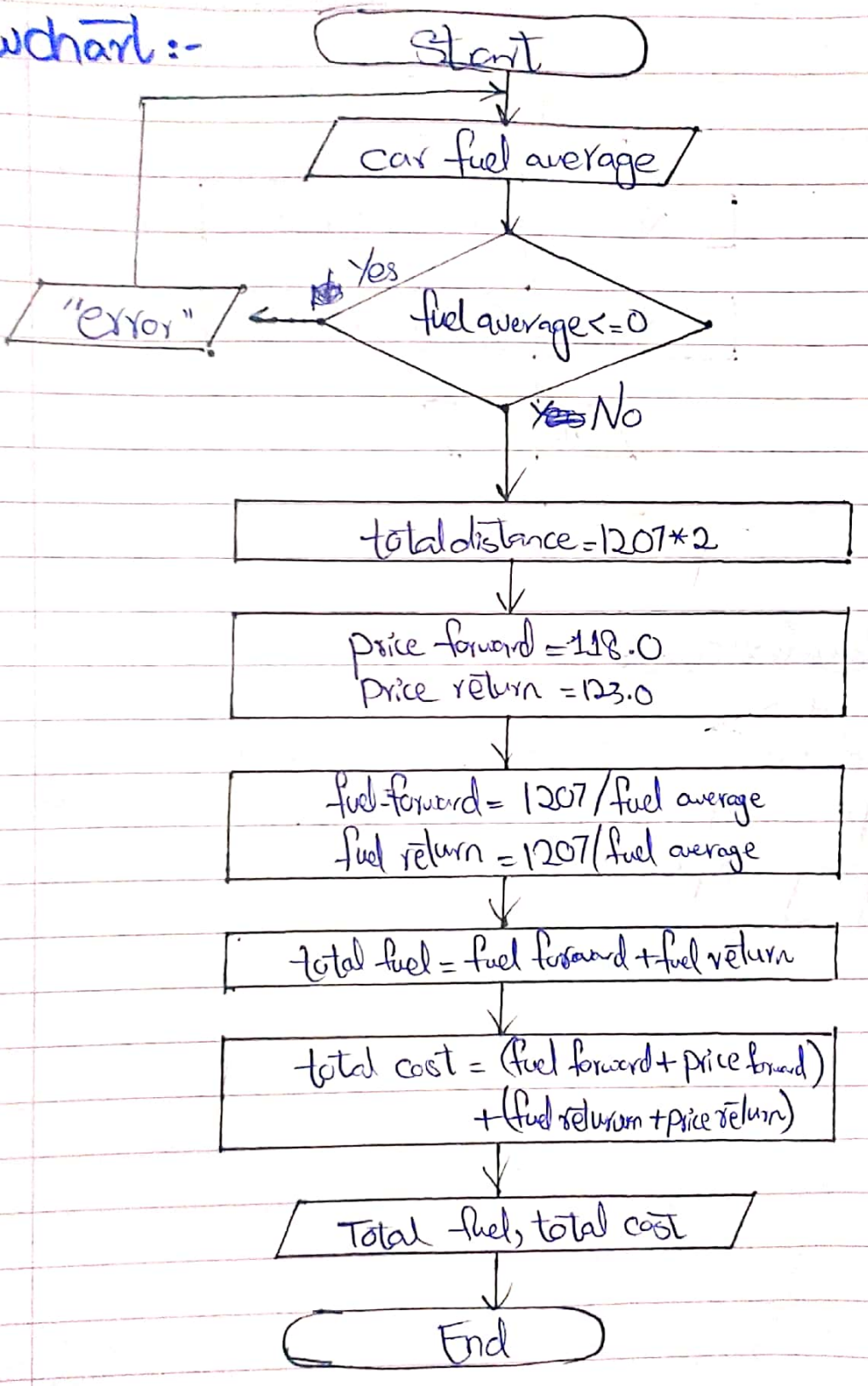
Pseudocode:-

- Start
- initialize variables salary, tax_rate.
- Process : $\left(\frac{tax\_rate}{100}\right) * salary$, and set to variable "tax"
- Process : salary - tax, and set to Net_Salary.
- Display Net_Salary and tax.
- End.

day/date

Question 4:

Flowchart :-

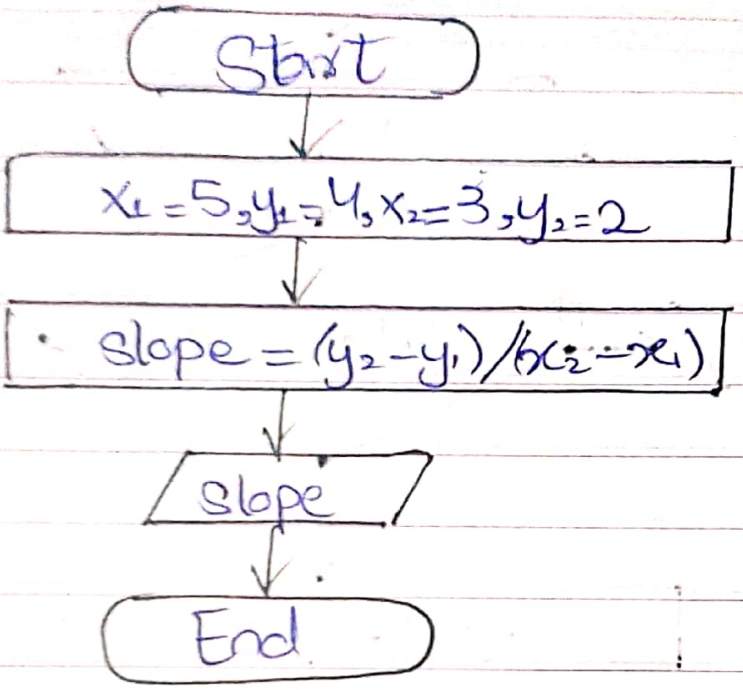


day/date

Pseudocode:-

- Start.
- Input car fuel average.
- Check if fuel average <= 0
  display error and move to step 2
- else, proceed.
- total distance = 1207 * 2.
- price_forward = 118.0.
- price return = 123.0.
- fuel forward = 1207 / fuel avg.
- fuel return = 1207 / fuel avg.
- total fuel = fuel forward + fuel return.
- total cost = (fuel forward + price forward) + (fuel return + price return).
- display total fuel and total cost.
- End.

Question 6



Pseudocode:-

- Start
- initialize variable $x_1=5$, y_1 4, $x_2=3$, $y_2=2$
- Slope = $(y_2-y_1)/(x_2-x_1)$
- display slope.
- End.