

1) ~~check~~ Leap year

→ Step 1: Start

Step 2: Enter year.

Step 3: initialize boolean is-leap = false;

Step 4: if (year % 4 == 0)

{ if (year % 100 == 0)

{ if (year % 400 == 0)

{ is-leap = true;

}

else

{ is-leap = false;

}

}

}

else

{ is-leap = false;

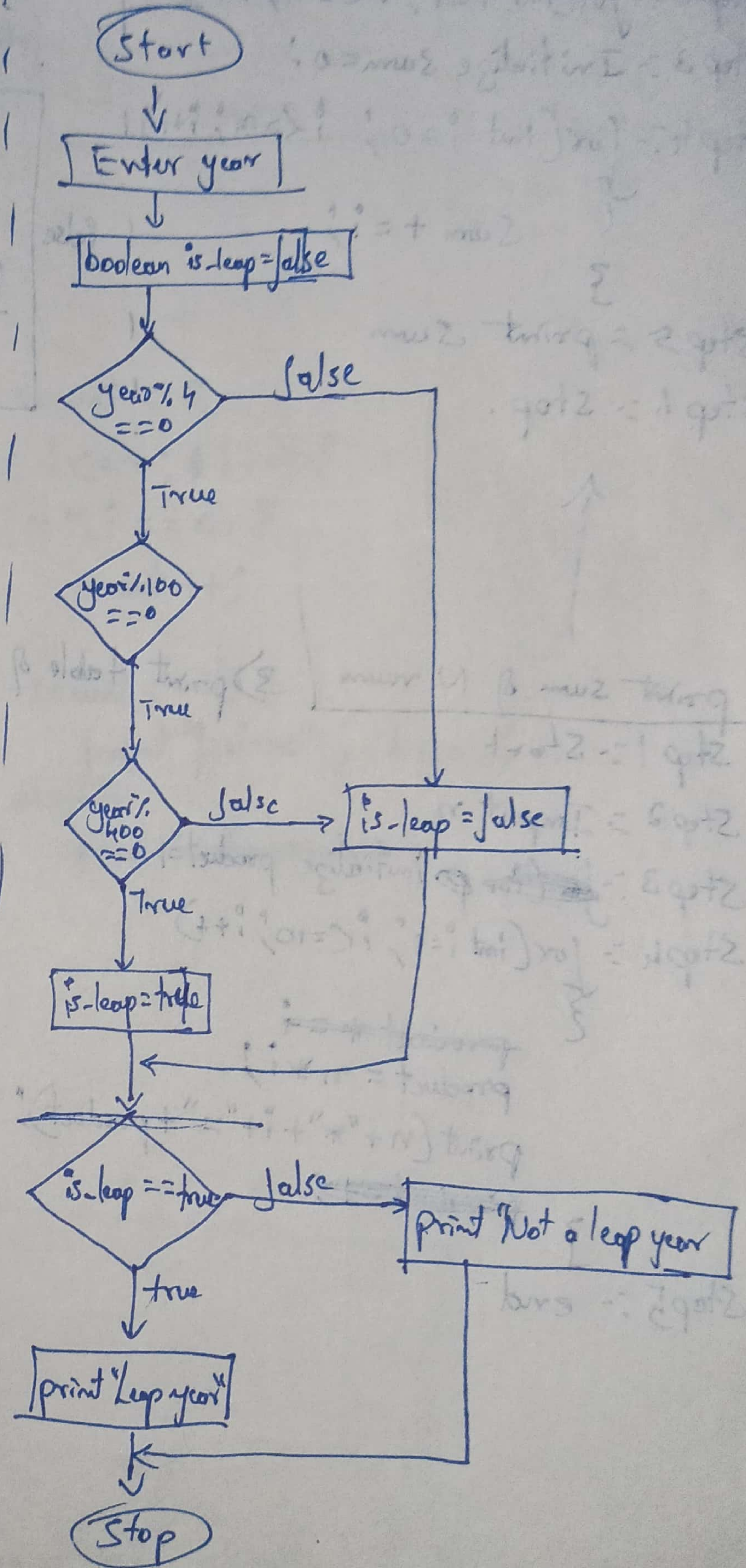
}

Step 5: if (is-leap)

print "Leap year"

else

print "Not a leap year"



2) Print all odd numbers backward from 99 to 1.

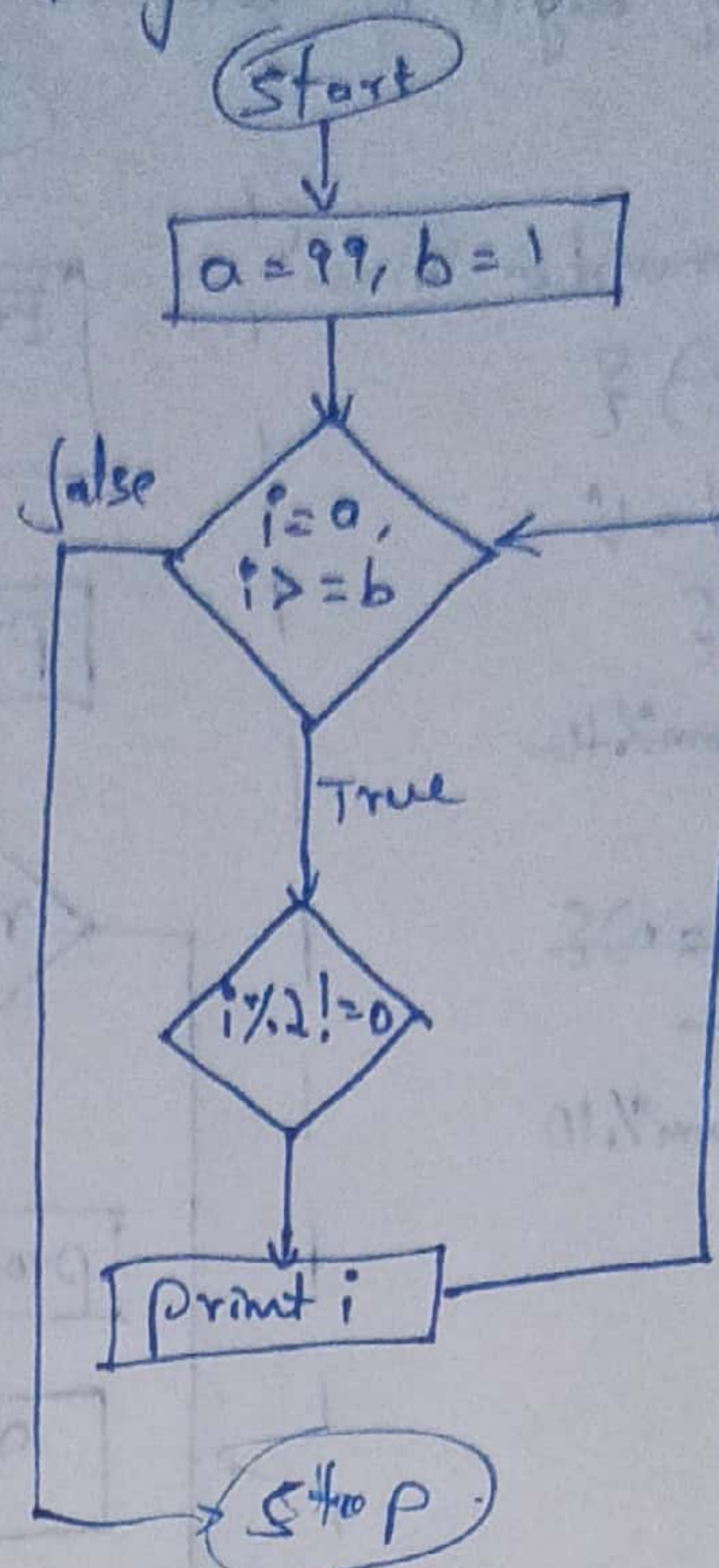
→ Step-1:- Start

Step-2:- $a = 99, b = 1$

Step-3:- $\text{for}(\text{int } i = a, i \geq b, i--);$

$\text{if}(i \% 2 \neq 0) \{$
 $\text{print } i$
 $\}$

Step-4:- Stop



3) Calculate Distance b/w 2 points.

→ Step 1:- Start

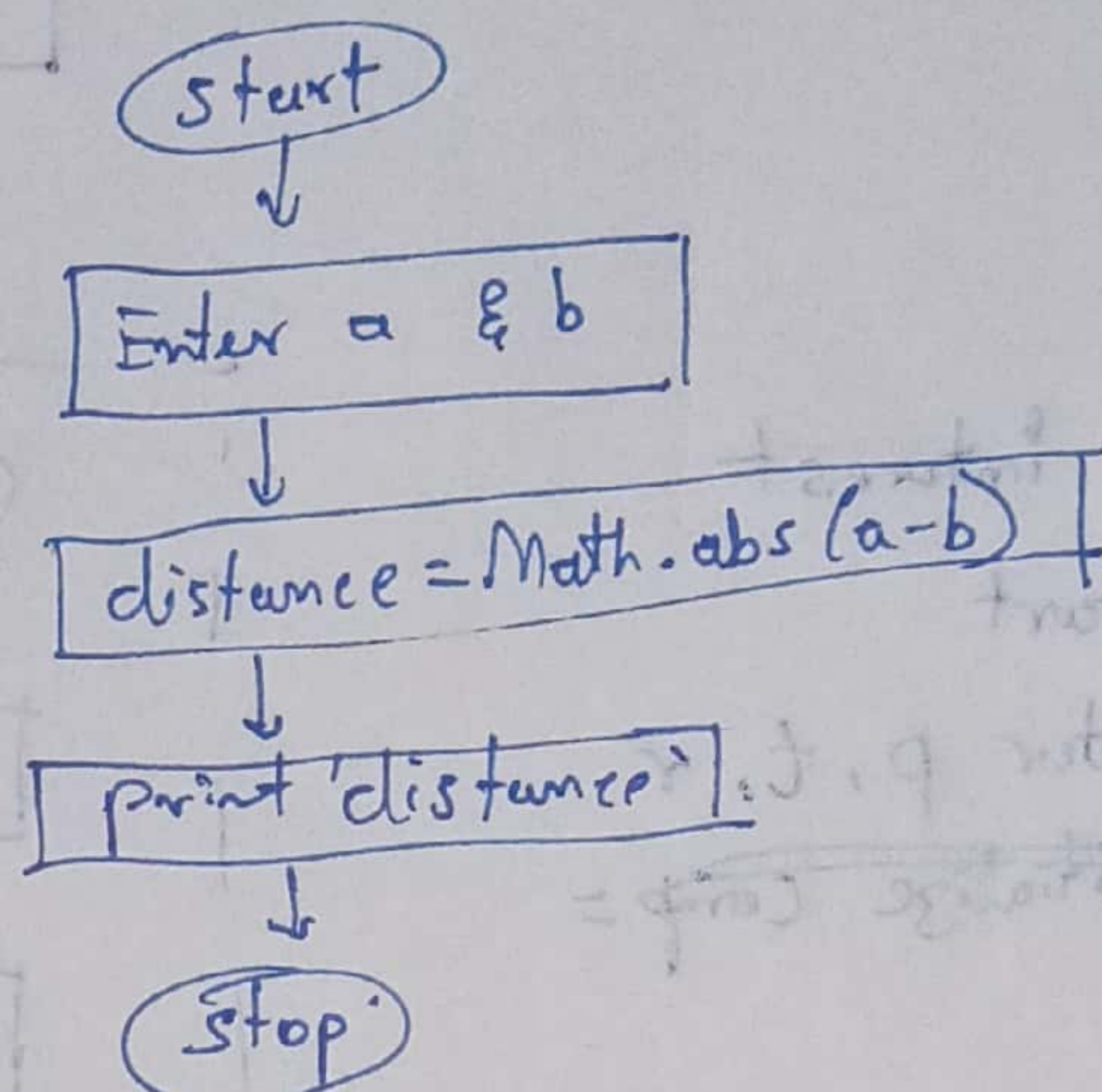
Step 2:- Enter point 'a' & point 'b'

Step 3:- initialise 'distance'

Step 4:- $\text{distance} = \text{Math.abs}(a - b)$

Step 5:- print 'distance'

Step 6:- Stop.



4) Sum of even & odd from 10 numbers

→ Array

→ Step 1:- Start

Step 2:- Enter 10 numbers $[A_1, A_2, A_3, A_4, A_5, A_6, A_7, A_8, A_9, A_{10}]$

Step 3:- ~~for(int i = 0; i < arr.length; i++)~~ initialize sumodd & sumeven

$\text{sumodd} = 0, \text{sumeven} = 0;$

Step 4:- $\text{for}(\text{int } i = 0; i < \text{arr.length}; i++) \{$

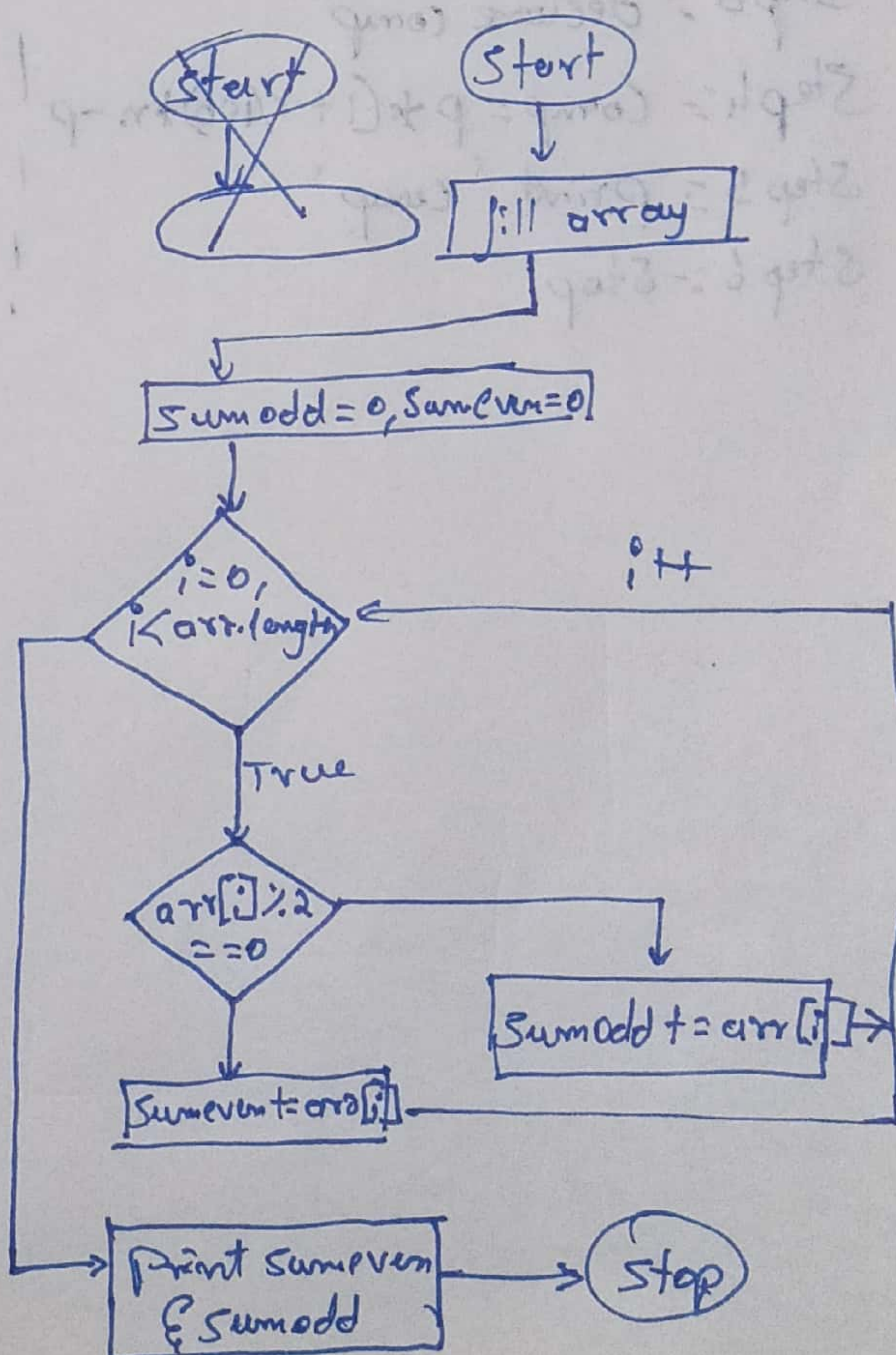
$\text{if}(\text{arr}[i] \% 2 == 0) \{$
 $\text{sumodd} += \text{arr}[i]$
 $\}$ else $\{$

$\text{sumodd} += \text{arr}[i]$

$\}$

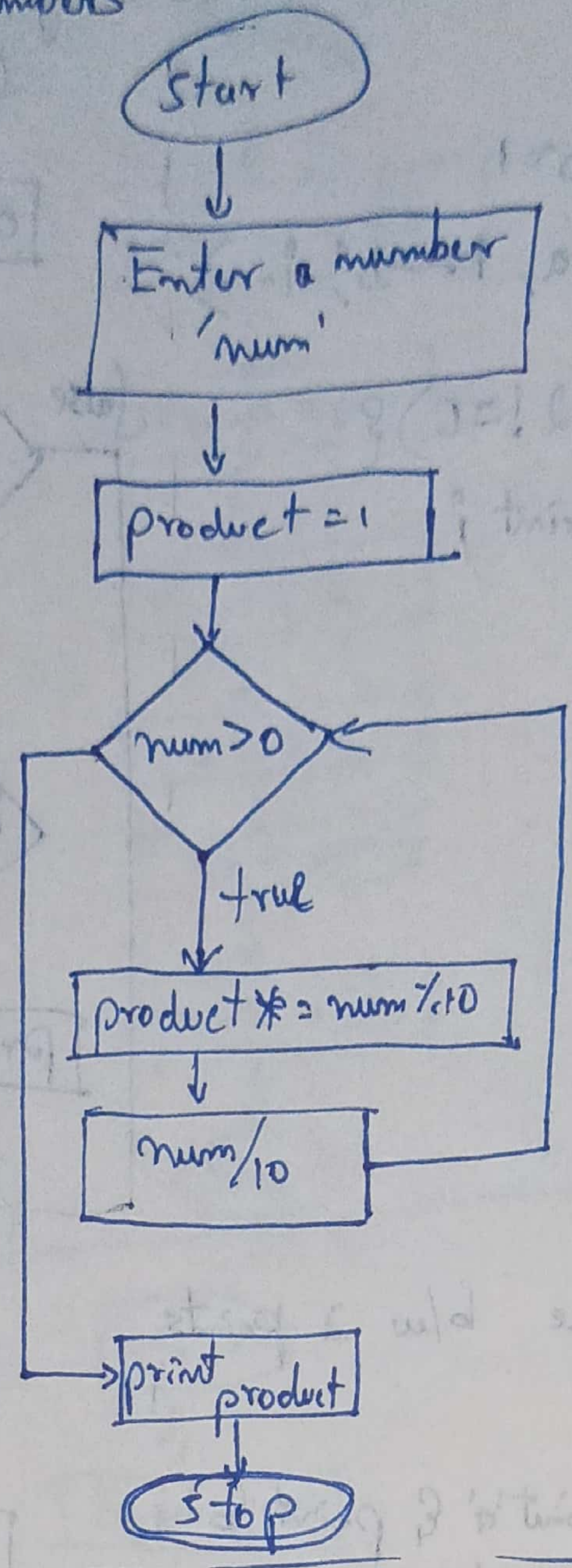
Step 5:- print sumeven & sumodd

Step 6:- Stop.



5) Calculate product of digits of numbers

- Step 1 :- Start
- Step 2 :- Enter a number 'num'
- Step 3 :- while (num > 0) {
- Step 3 :- Initialise product = 1;
- Step 4 :- while (num > 0) {
- ~~product * = num % 10~~
- ~~if (product~~
- ~~if (num % 10 != 0) {~~
- ~~product~~
- product * = num % 10
- num / 10;
- }
- Step 5 :- print product
- Step 6 :- Stop.



6) Compound interest

- Step 1 :- Start
- Step 2 :- Enter p, t, r
- Step 3 :- Initialize comp =
- Step 4 :-
- Step 3 :- declare comp
- Step 4 :- $comp = p * (1 + r/100)^n - p$
- Step 5 :- print 'comp'
- Step 6 :- Stop.

