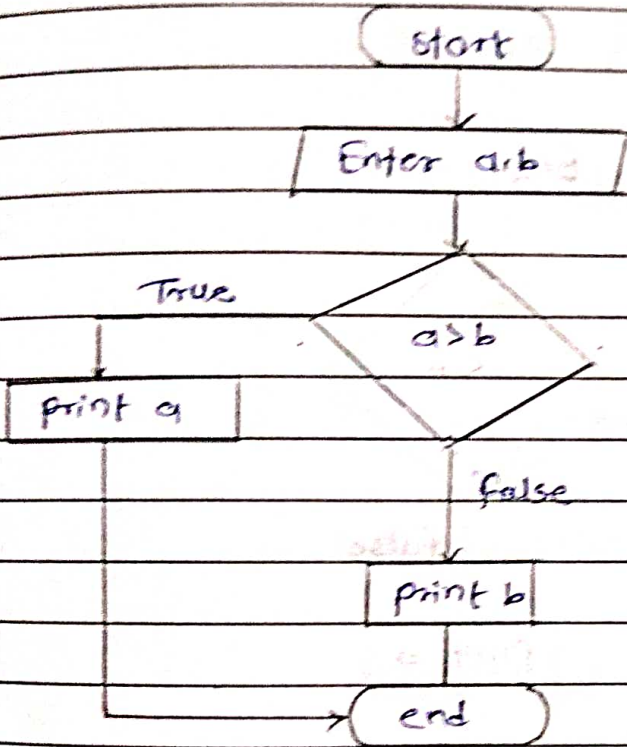


19-03-20  
Wednesday

# Assignment - ①

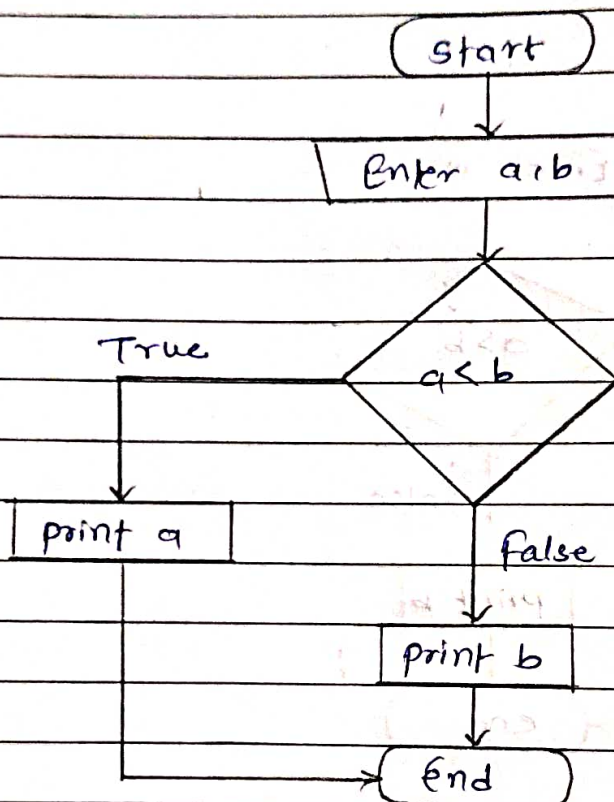
Date: \_\_\_\_\_  
Page: \_\_\_\_\_

1. Draw flowchart that checks two numbers and print maximum of two numbers.



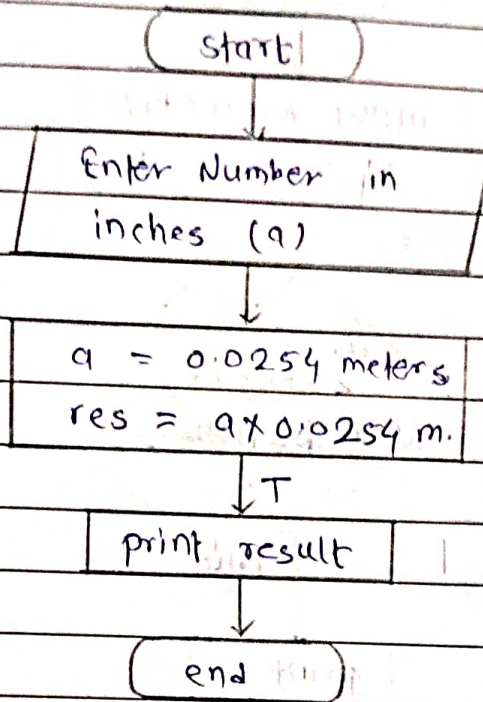
2. Draw flowchart that checks two numbers and print minimum of two numbers.

→



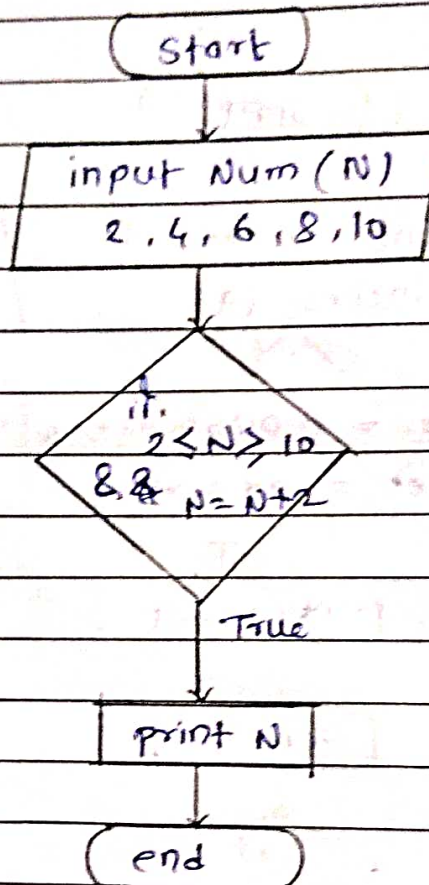


3. Draw flowchart that reads number in inches and converts it to meters.



4. Draw flowchart to print 2, 4, 6, 8, 10.

→





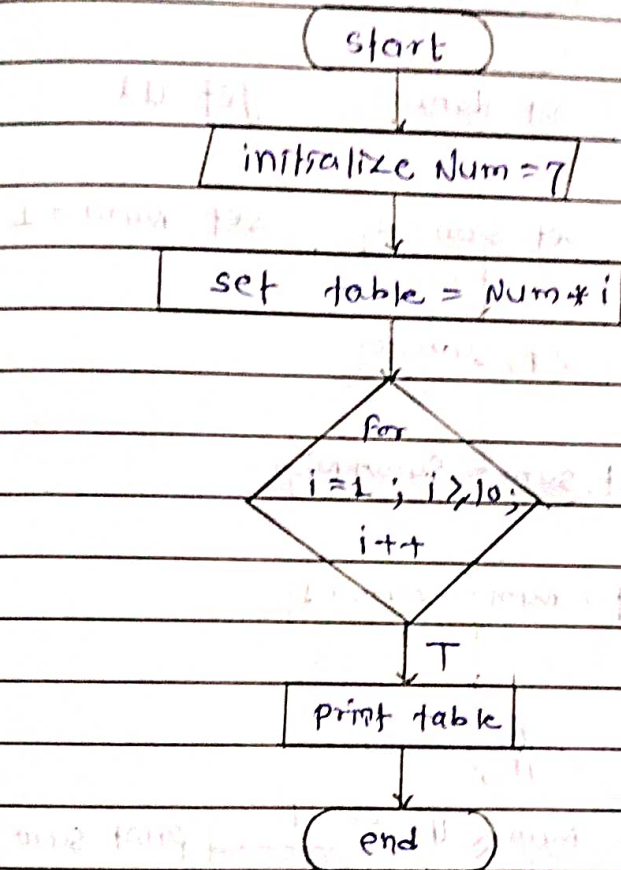
10.02.22  
Thursday

## Assignment - (2)

Date \_\_\_\_\_  
Page \_\_\_\_\_

1. Write algorithm that prints table of any Num.

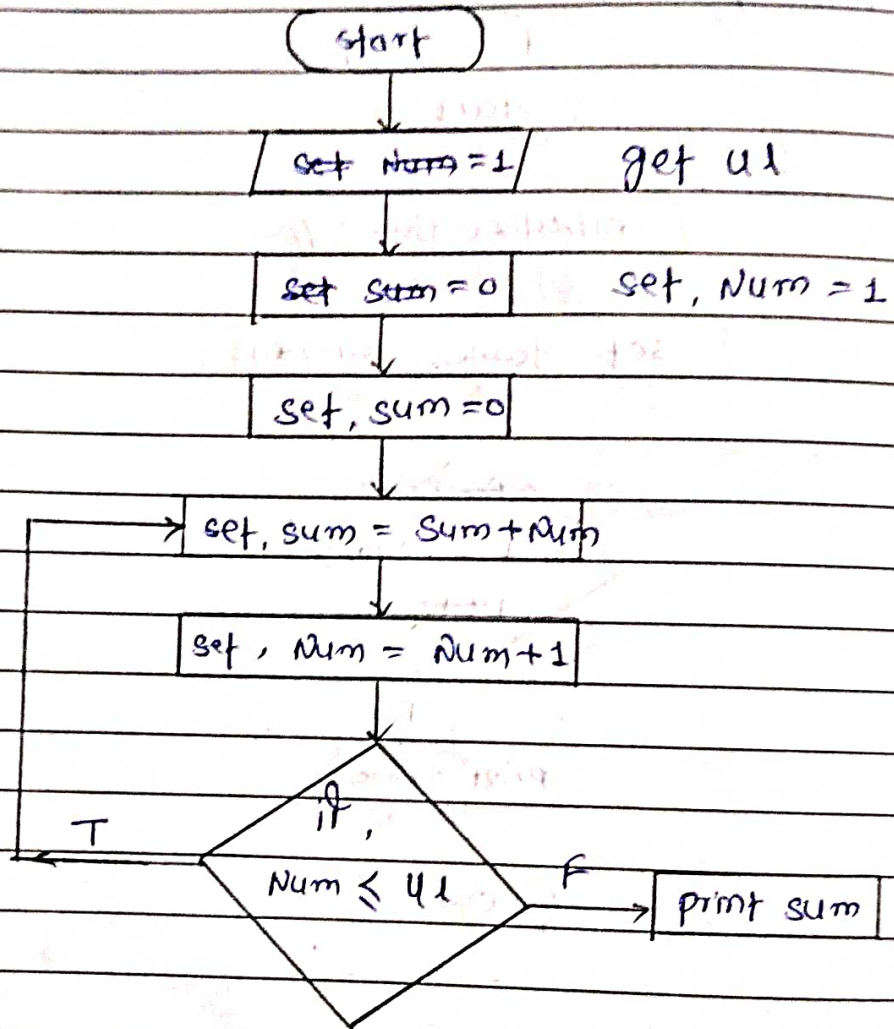
→ i.e. 7



# algorithm

- initialize Num = 7
- set table = Num \* i
- for, (i = 1 to 10, i++)
- print table
- end

2. Write algorithm that print sum of N numbers

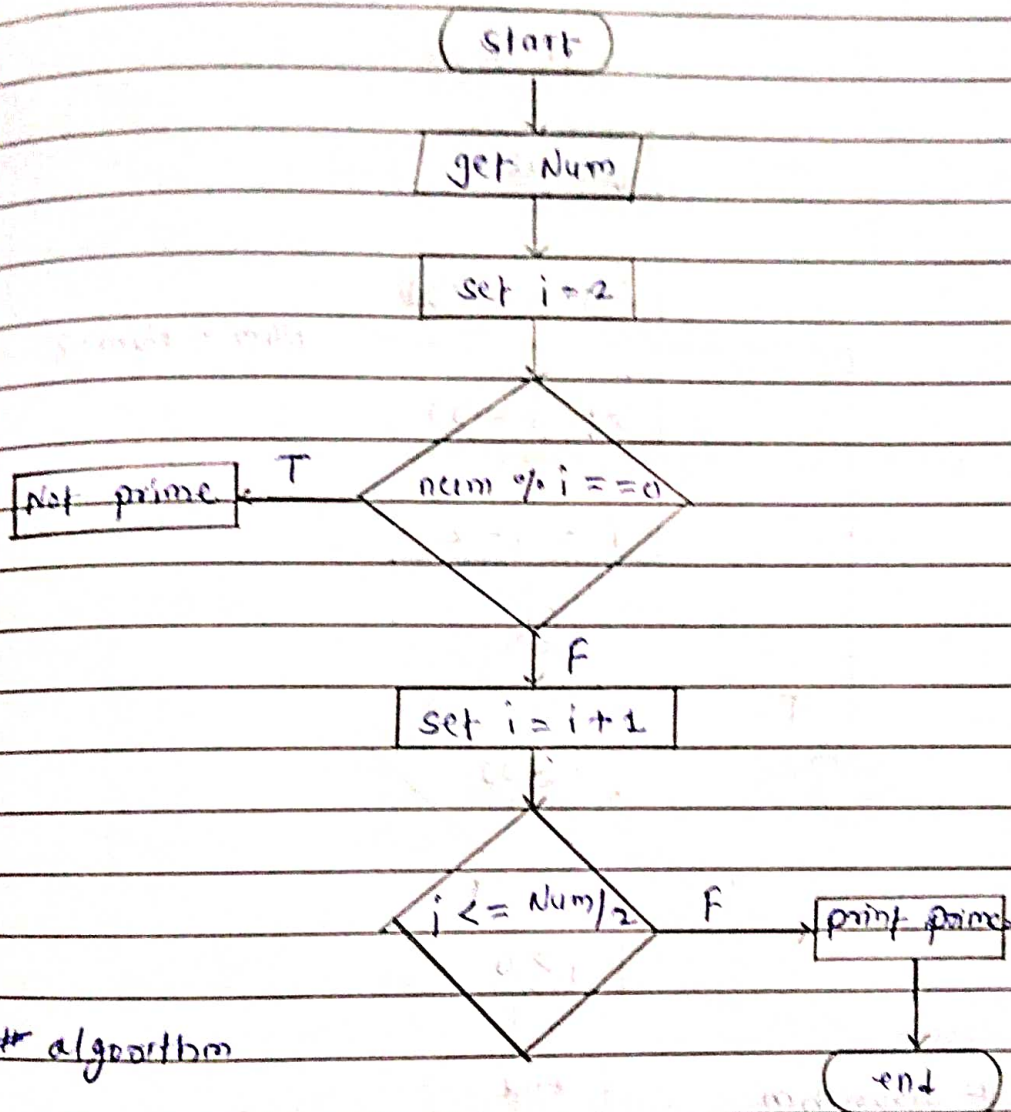


# algorithm

- initialize upper limit, ul
- set Num = 1
- set sum = 0
- set, sum = sum + Num
- set, Num = Num + 1
- if, (Num <= ul)  
    print sum
- end.



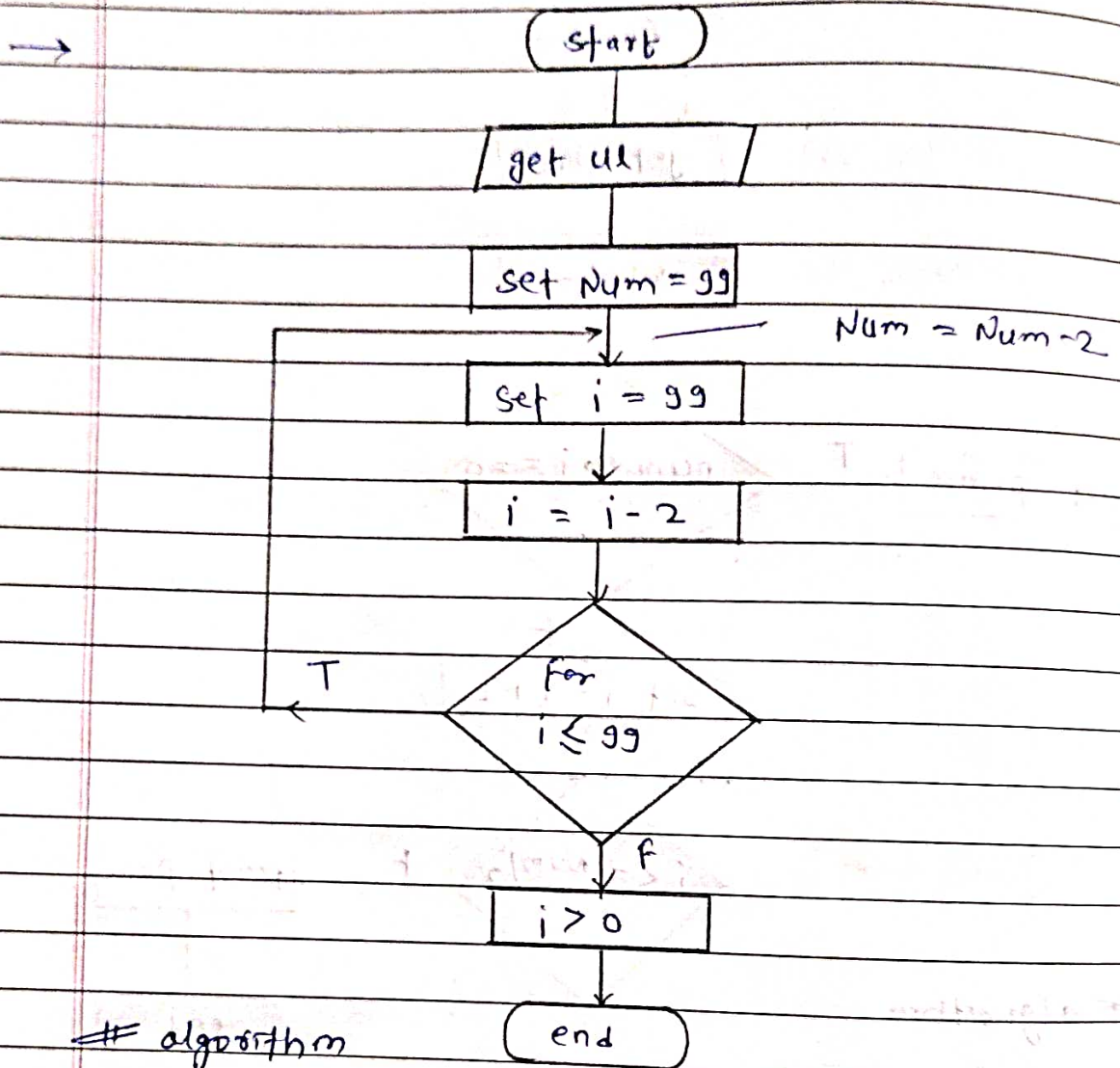
3. Write algorithm that to check if a number is prime.



algorithm

- initialize number
- set  $i = 2$
- check if,  $\text{num} \% i == 0$
- set  $i = i + 1$
- check if,  $i \leq \text{Num} / 2$
- false then, print "prime Number"
- end.

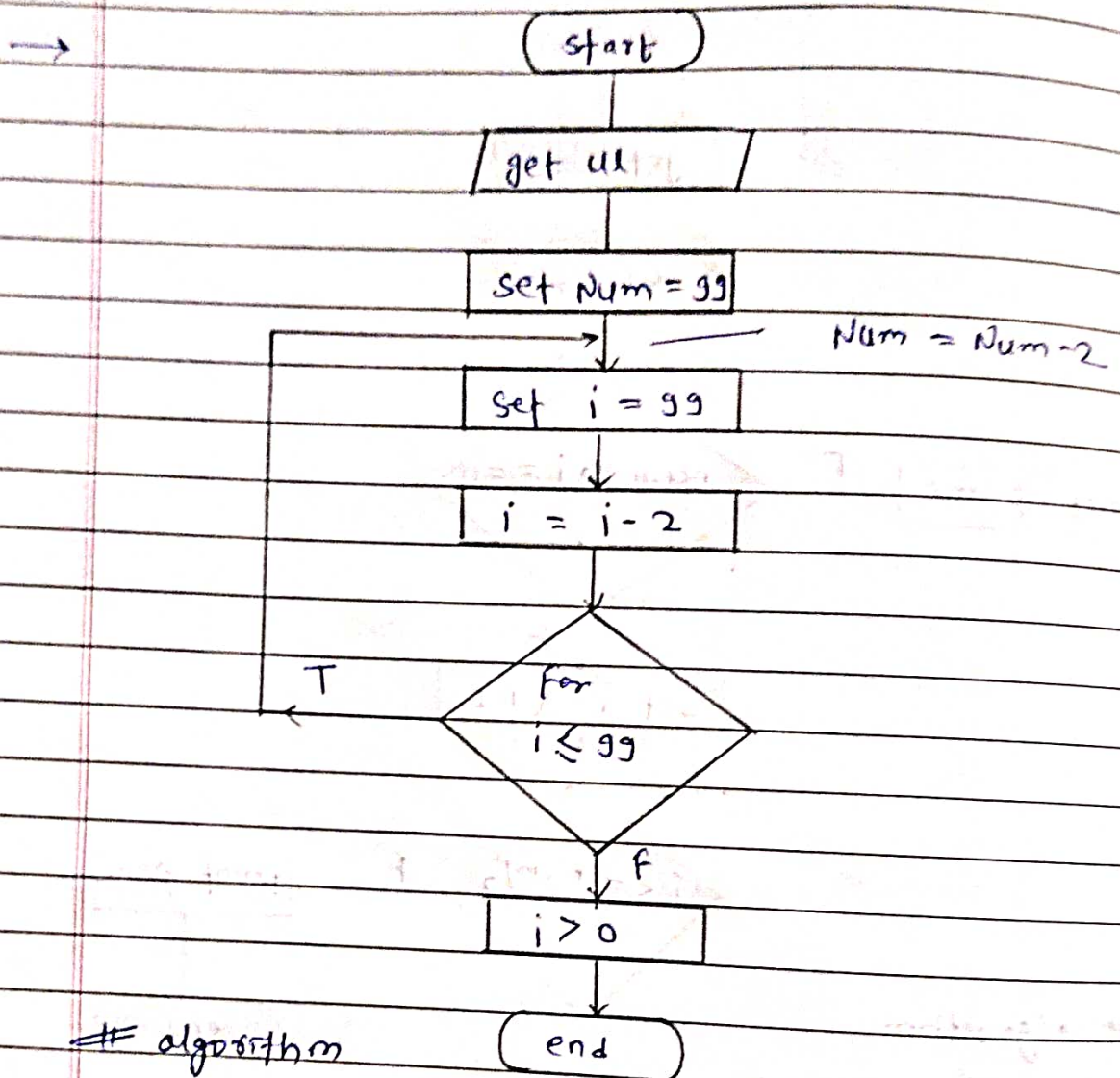
4. Write algorithm to print all odd numbers backward from 99 to 1.



- initialize upper limit, ul
- set Num = 99
- set Num = Num - 2
- set i = 99
- set i = i - 2
- for, ( i <= 99 )
- print Num
- check i > 0 and stop



4. Write algorithm to print all odd numbers backward from 99 to 1.



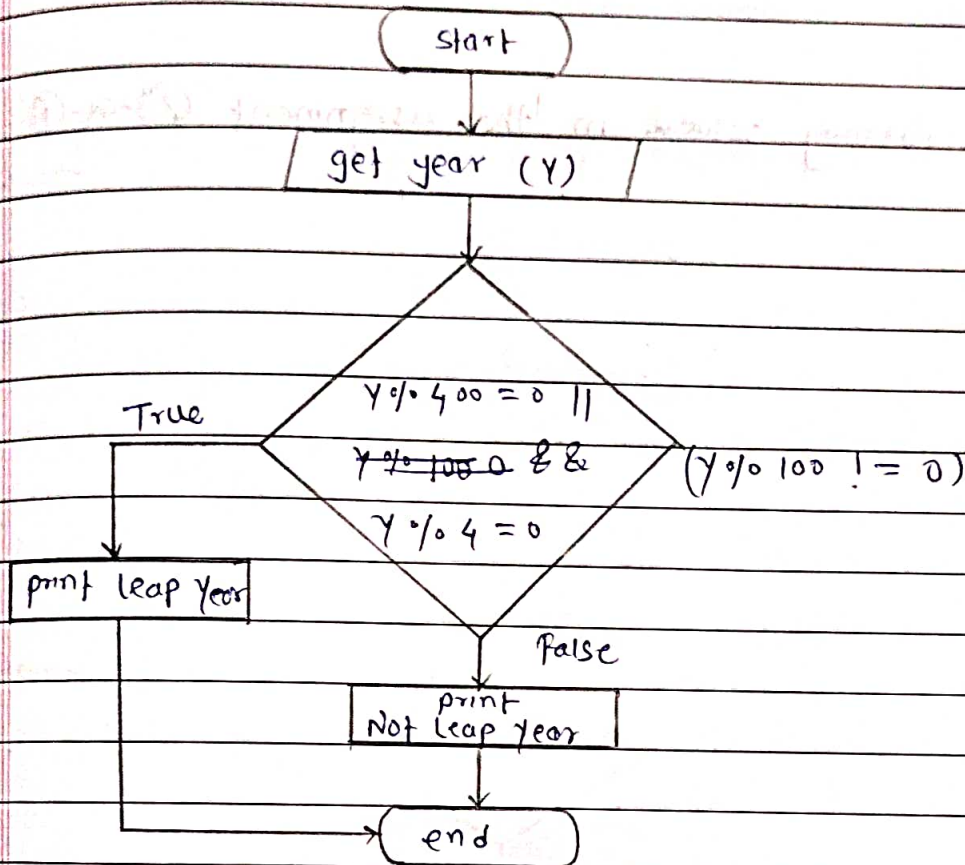
- initialize upper limit, ul
- set Num = 99
- set Num = Num - 2
- set i = 99
- set i = i - 2
- for, ( i ≤ 99 )  
    print Num
- check i > 0 and stop

12-02-22  
Saturday

## Assignment - ③

Date \_\_\_\_\_  
Page \_\_\_\_\_

1. check if a year is leap or not.



Algorithm

- initialize year (Y)
- if  $(Y \% 4 = 0)$  or  $(Y \% 400 = 0)$   
and  $(Y \% 100 \neq 0)$
- is true, print leap year
- if not then print Not leap year
- stop

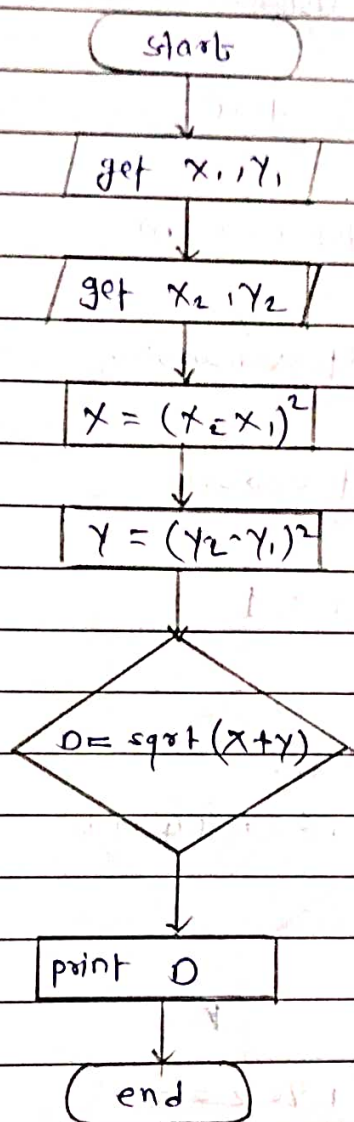


2. Write algorithm to print all odd numbers backward from 99 to 1.

→

Already solved in the assignment (2<sup>nd</sup>-q.4)

3. Java program to calculate distance between two points

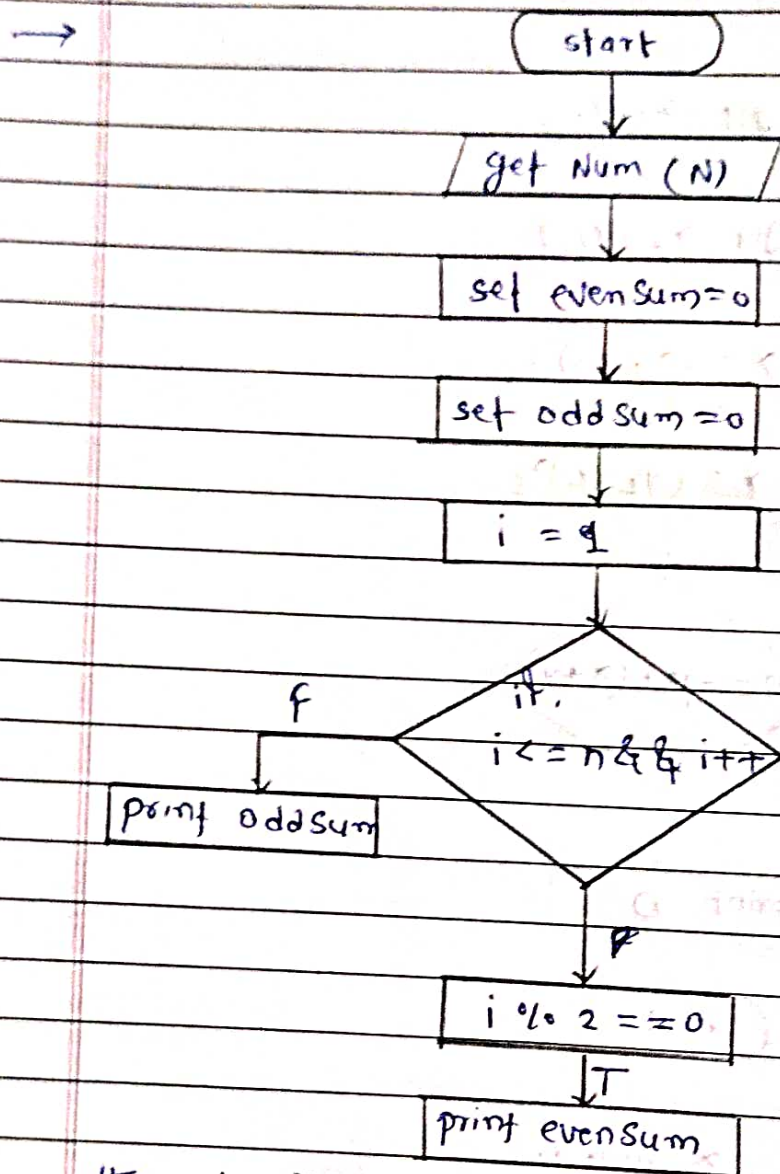


# algorithm

- initialize  $x_1$  and  $y_1$
- initialize  $x_2$  and  $y_2$
- set  $X = (x_2 - x_1)^2$
- set  $Y = (y_2 - y_1)^2$
- set  $D = \text{square root of } (X + Y)$
- print  $D$
- stop.



4. Write algorithm to print sum of even and odd digits, considering 10 numbers are taken from user.

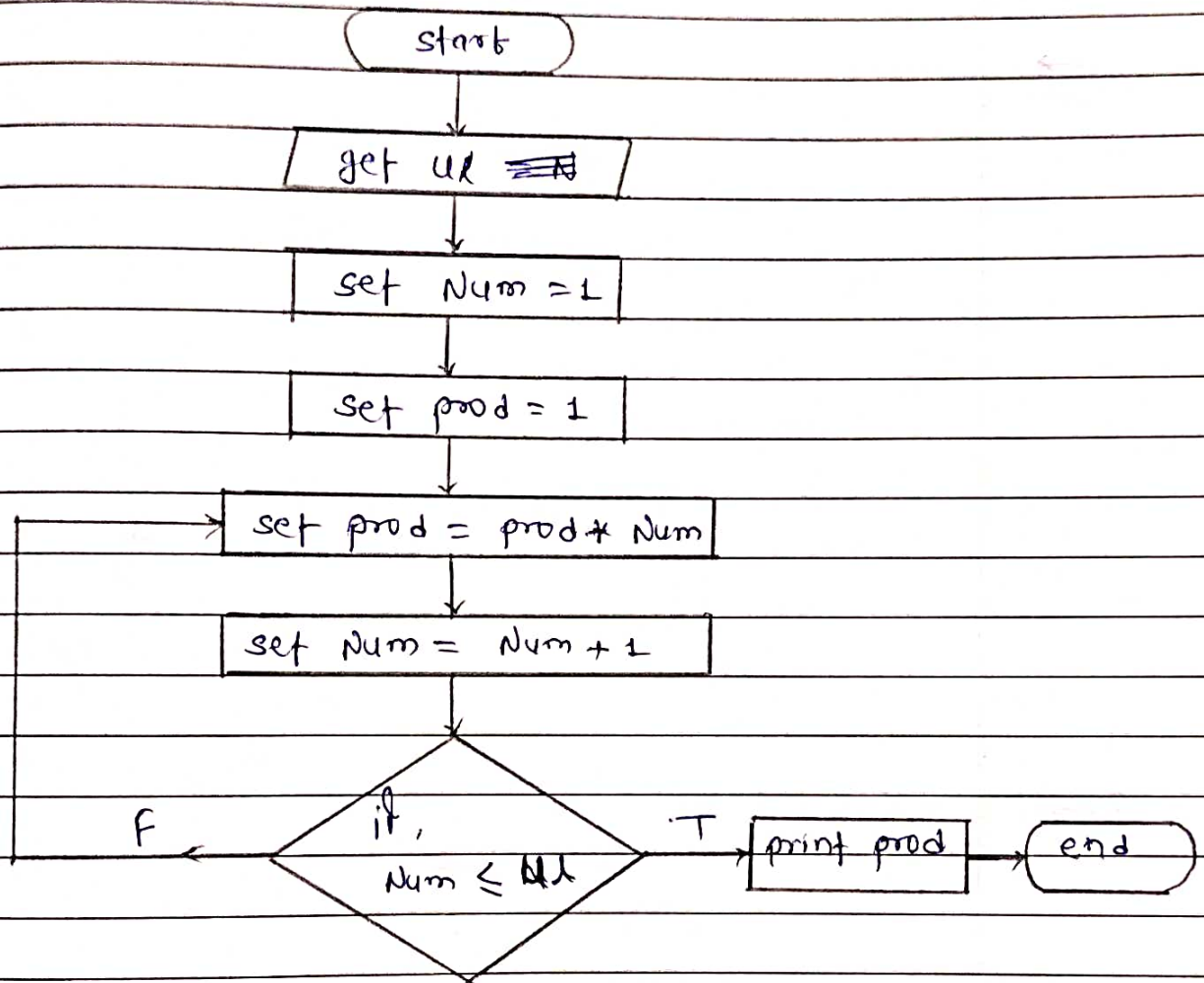


# algorithm

- initialize Number, N
- set evenSum = 0
- set oddSum = 0
- set i = 0
- check, if  $(i \leq n)$  and  $i++$   
if True check  $(i \% 2 == 0)$   
and print even sum

- if - false, print oddsum.

5. Calculate product of (sum) digits of Number. (till N)



# algorithm

- initialize upper limit ~~==~~ (ul)
- set Num = 1
- set ~~Num~~ prod = 1
- set prod = prod \* Num
- set Num = Num + 1
- if (Num ≤ ul)
- True then print 'prod'
- stop.