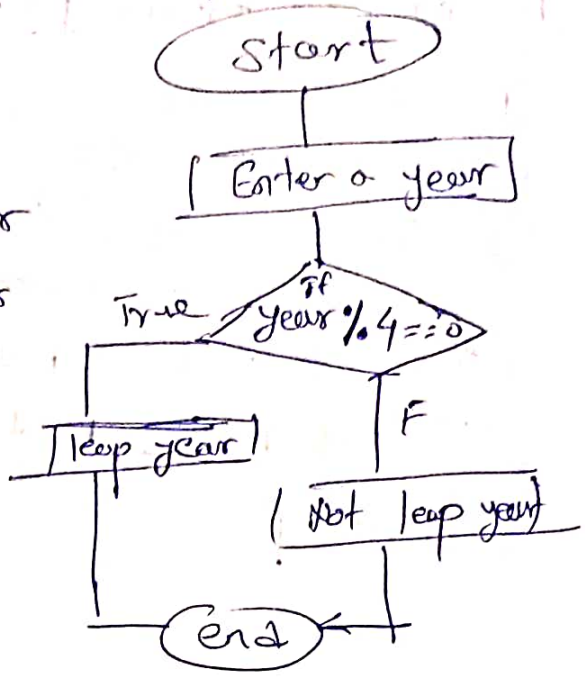
H.W

12/02/2022

① Check if year is leap or not.

→ ① enter a year.
② If year % 4 == 0
    ! Then print leap year
    ! else not a leap year
③ End.



② Write algorithm print all odd number backwoork from 99 to 1.

① ent. num.
② set num = 99
③ if num ~~is d~~ is divisibly by 2
    ! Then print num
④ ~~else~~ set num = num - 1, num ≥ 1
⑤ Then Repeart the loop
⑥ stop.

(3) Java program to calculate distance betn two points.

(4) Write algorith to print sum of even & odd considering 10 numbers are taken from user.

→ (1) Start
(2) Enter ~~10 numbers~~ n [10]
~~(4) If number is divisible by 2 then print even~~
(3) ~~else print odd~~ Int i
~~(3)~~ for (i=0; i<10; i++)
(5) n[i] % 2 == 0;
print no. is even.
else no. is odd.
(6) set sum = 0
~~(7)~~ sum = sum + n[i]
(8) then print sum of even
else print sum of odd
(9) stop.

(5) Calculate the product of number of digits

(1) enter a number.
(2) set product = 1.
(3) last digit = num % 10.
(4) product = product x last digit.
(5) remove last digit dividing by 10 ($num = \frac{num}{10}$)
(6) repeat step 3.
(7) print the product.
(8) stop.

(6) WAP to print first X terms of the series 3N+2 which are not multiples of 4

(7) Write algorithm to find compound interest, provided principle, time & ROI are taken by user.

→ (1) Start.
(2) Enter, values of principle, time, ROI
(3) calculate amount using formula
(4) amount = principle * (1+rate/100) ^ time.
(5) calculate compound interest.
(6) Print. compound. Intrest.
(7) Stop.