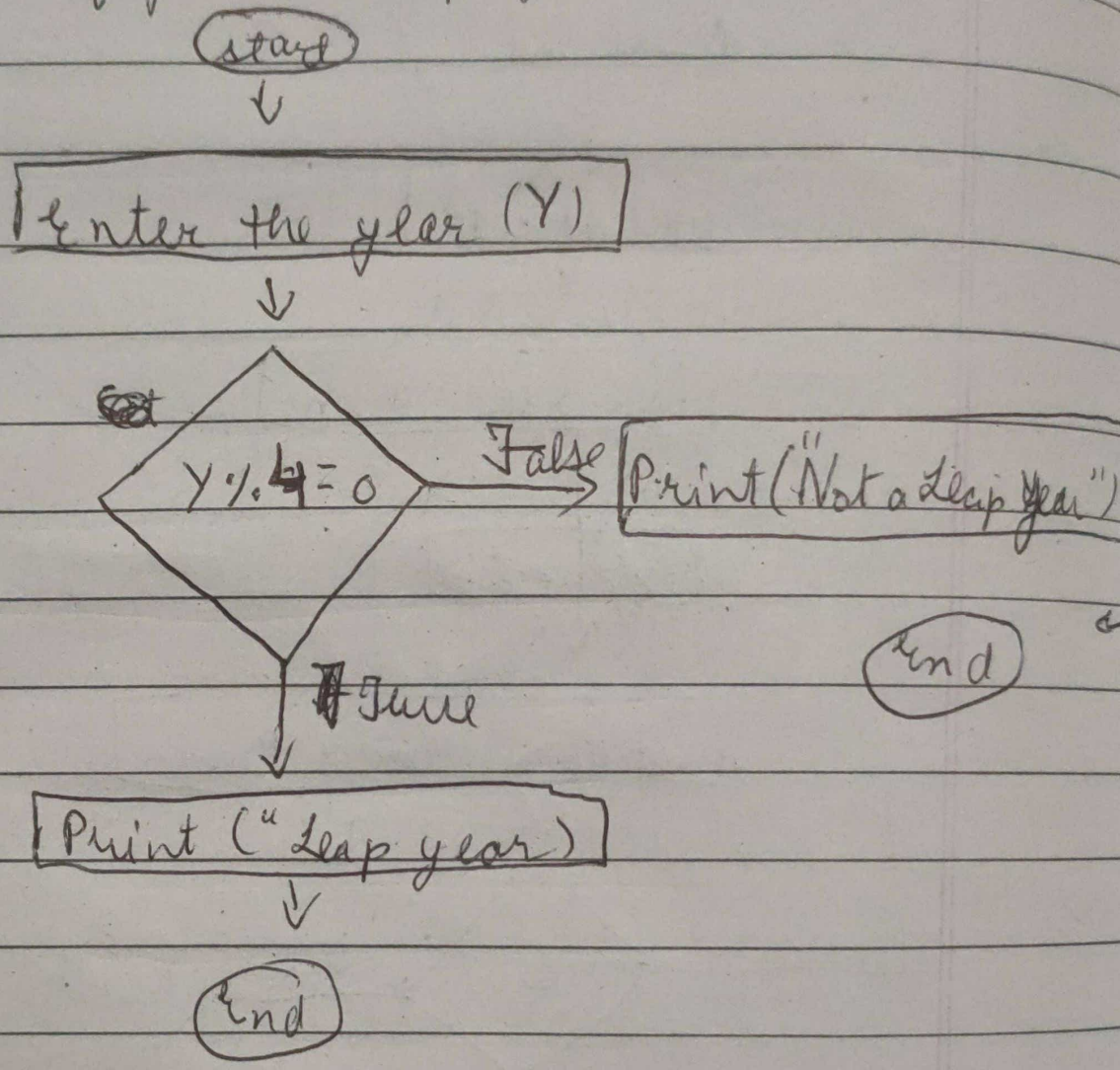
Q 1) Check if year is leap year or not



Algo → i) Enter the year (Y) by user.

ii) If Y % 4 = 0

Print ("Leap year")

else

Print ("Not a leap year")

Q2. Write algo to print all odd no.s backward from 99 to 1

Ans 2 :- i) Initialize (n) = 99

ii) If n % 2 ≠ 0

Print (n)

else

go to step iii)

iii) Set n = n - 1

iv) If n ≥ 1

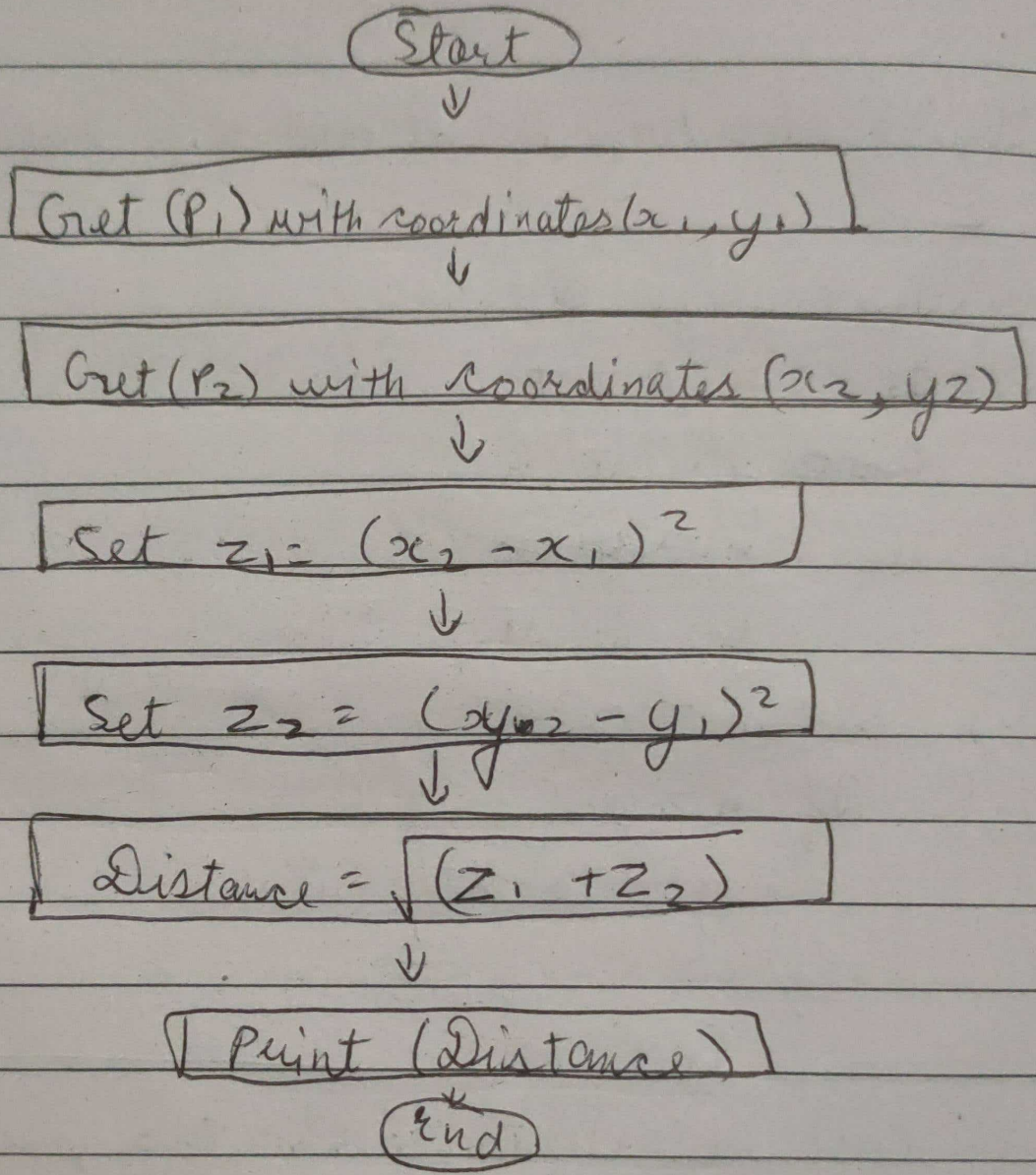
go to step ii)

else

End

Q3.

Program for dist. b/w 2 points.



Algo→ i) Get Point P_1 with coordinates (x_1, y_1) & P_2 with (x_2, y_2).

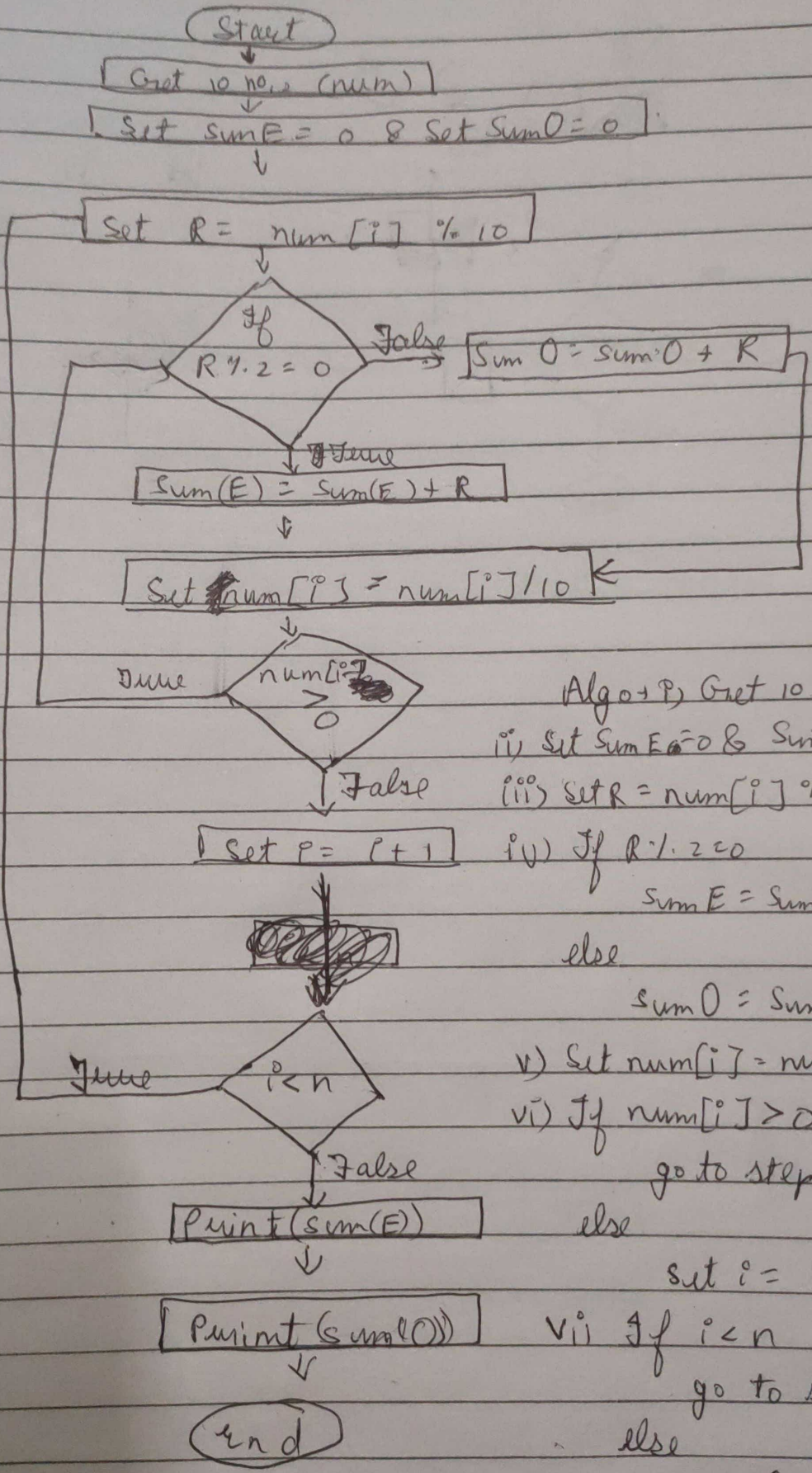
ii) Set $z_1 = (x_2 - x_1)^2$

iii) Set $z_2 = (y_2 - y_1)^2$

iv) Set Distance = $\sqrt{z_1 + z_2}$

v) Print (Distance)

Q4.



Algo + P) Get 10 no.s (num)

ii) Set SumE = 0 & SumO = 0

iii) Set R = num[i] % 10

iv) If R % 2 = 0

SumE = SumE + R

else

SumO = SumO + R

v) Set num[i] = num[i]/10

vi) If num[i] > 0

go to step iv

else

set i = i + 1

vii If i < n

go to step (iii)

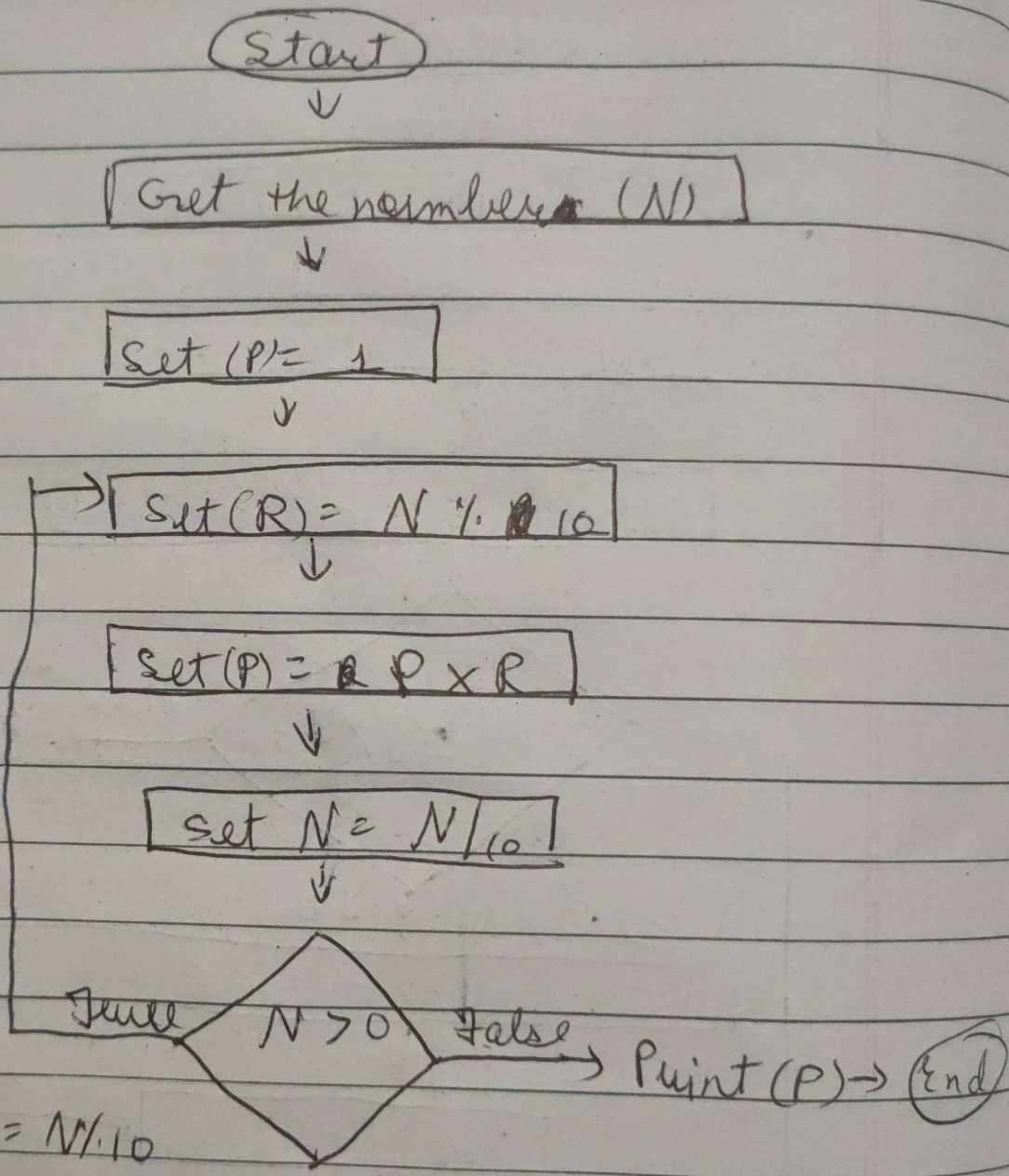
else

Print (sum(E)) &&

Print (sum(O))

Qs. Calculate product of digits of no.

Ans.



Algo →

i) Get Number (N)

ii) set P = 1 R = N%10

iii) set P = P x R

iv) set N = N/10

v) If (N > 0)

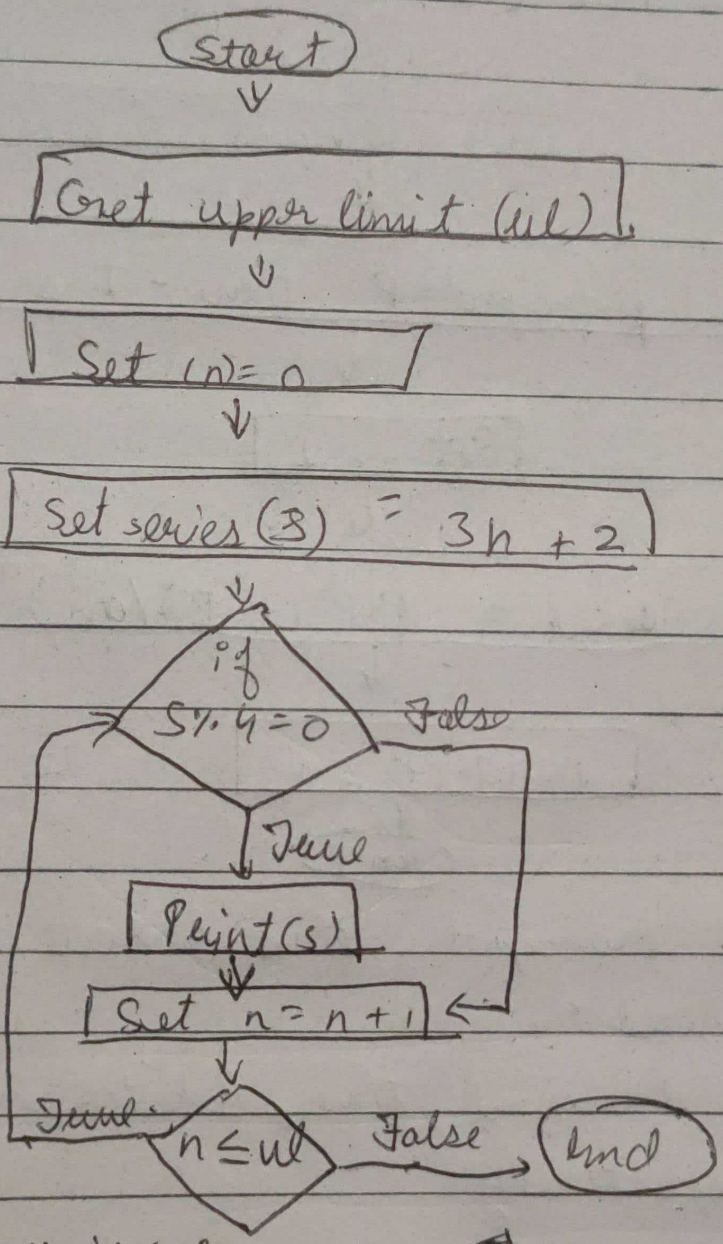
go to step iii)

else

Print (P)

Q6. Print n term of the series 3N+2 which are multiples of 4.

Ans 6.



Algo → i) Get upper limit (ul)

ii) Set n = 0

iii) Set series (S) = 3n + 2

iv) If (S%.4=0)

Print (S)

else

go to step v)

v) Set n = n+1

vi) If (n ≤ ul)

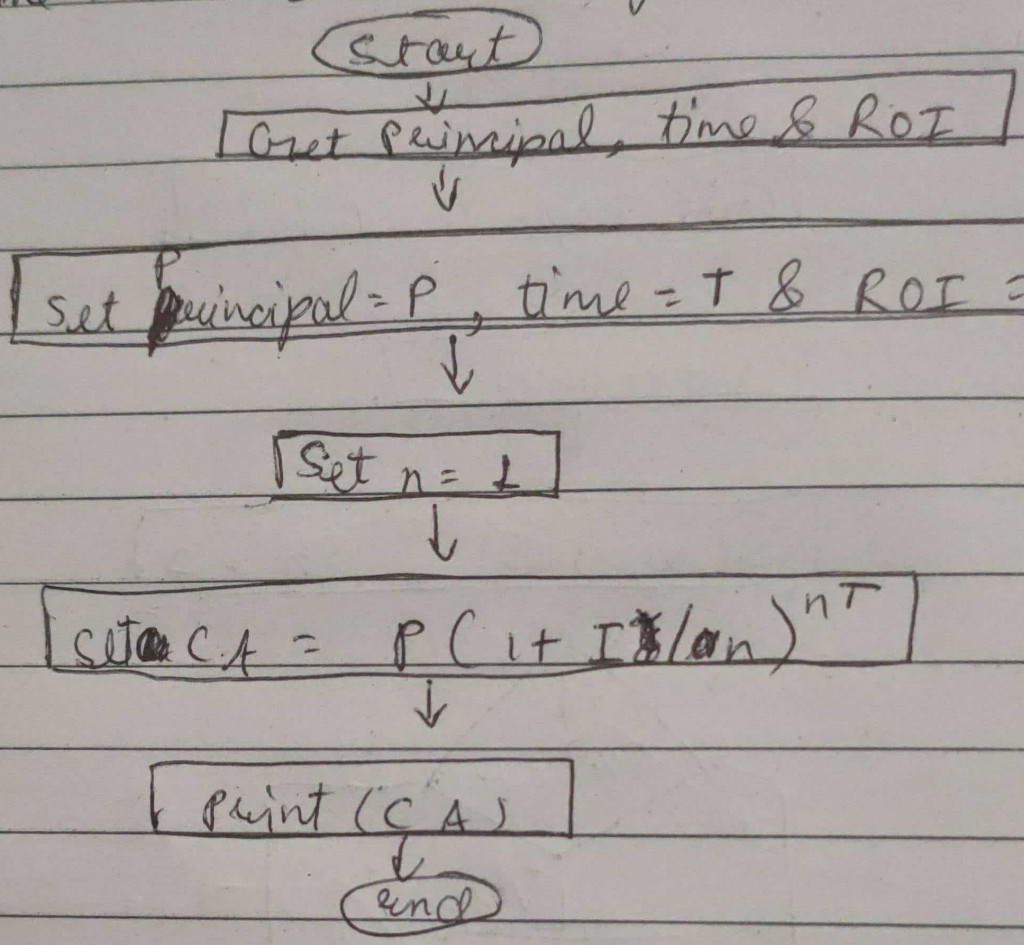
go to step (iv)

else

stop.

Q7. To find compound interest, provided principal, time & ROI are taken by user.

Ans 7.



Algo → i) Get Principal, time & rate of interest by users.

ii) Set Principal, time, & rate of interest as P, T, I respectively.

iii) Set n = no. of times interest is compended as 1.

iv) Set compound interest CA = P(1 + I/n)^nT

v) Print (CA)