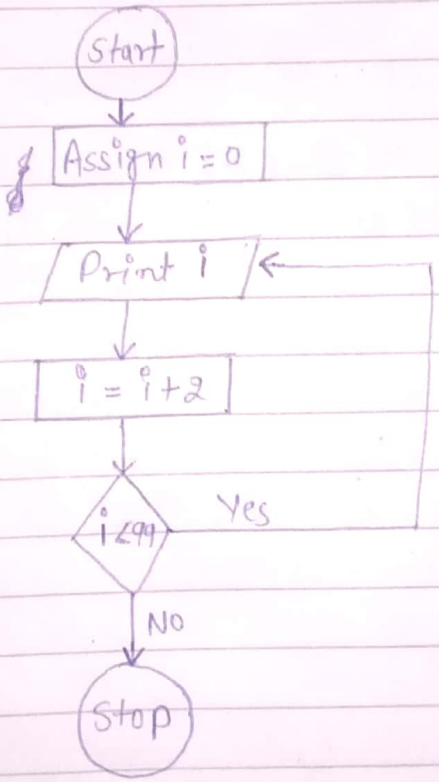
Assignment-②

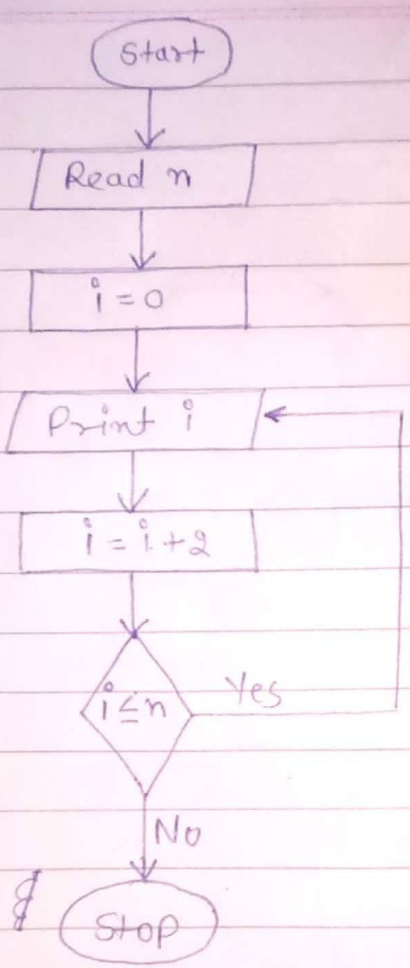
Problem①: An algorithm to calculate even numbers between 0 and 99.

Step(i): Start
Step (ii) : $i \rightarrow 0$
step (iii): Print value of i
Step (iv): $i \rightarrow i+2$
Step (v) : if $(i < 99)$ → then go to Step (iii)
Step (vi) : End



Problem②: Design an algorithm which gets a natural value, n, as its input and Print odd numbers equal or less than n. Then write them in the standard output.

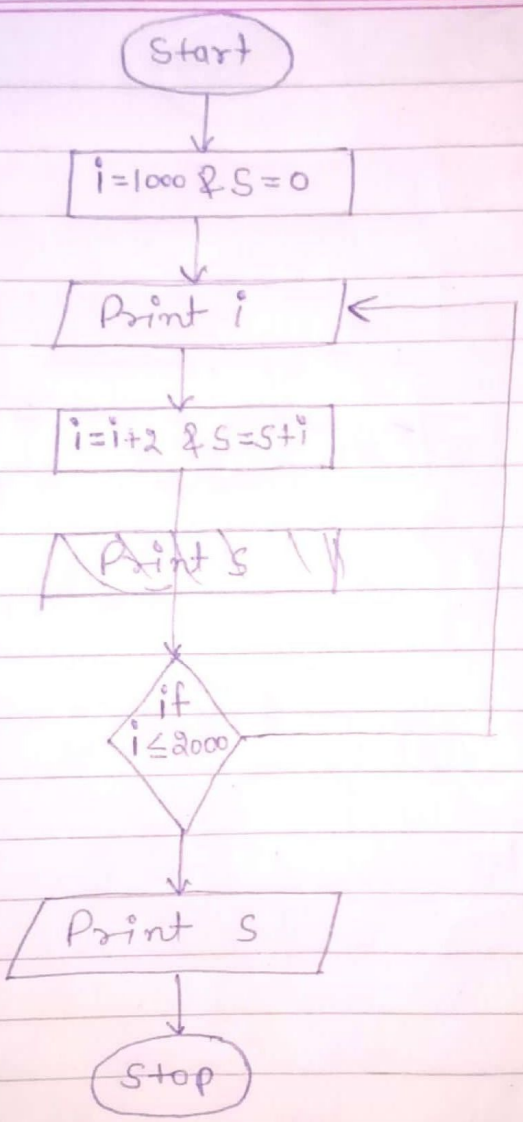
Step(i) start
step(ii) $i \rightarrow 0$, Read n
Step(iii) Print value of i
step(iv) $i \rightarrow i+2$
Step(v) if $(i \leq n)$ → then goto Step (iii)
step(vi) End



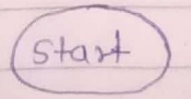
Problem③: Design an algorithm which generates even numbers between 1000 and 2000 and then Prints them in the standard output. It should also print total Sum.

Step(i) Start
Step(ii) $i \rightarrow 1000$ and $S \rightarrow 0$
Step(iii) Print i
Step(iv) $S \rightarrow S + i$
Step(v) $i \rightarrow i + 2$
Step(vi) if ($i <= 2000$) then goto Step(iii)
Step(vii) Print S
Step(viii) End.

Problem



Problem: Check if the given number is Prime or not



Step(i) Start
Step(ii) Read N.
Step(iii) Assign i=2
Step(iv) if i<n than n%i==0

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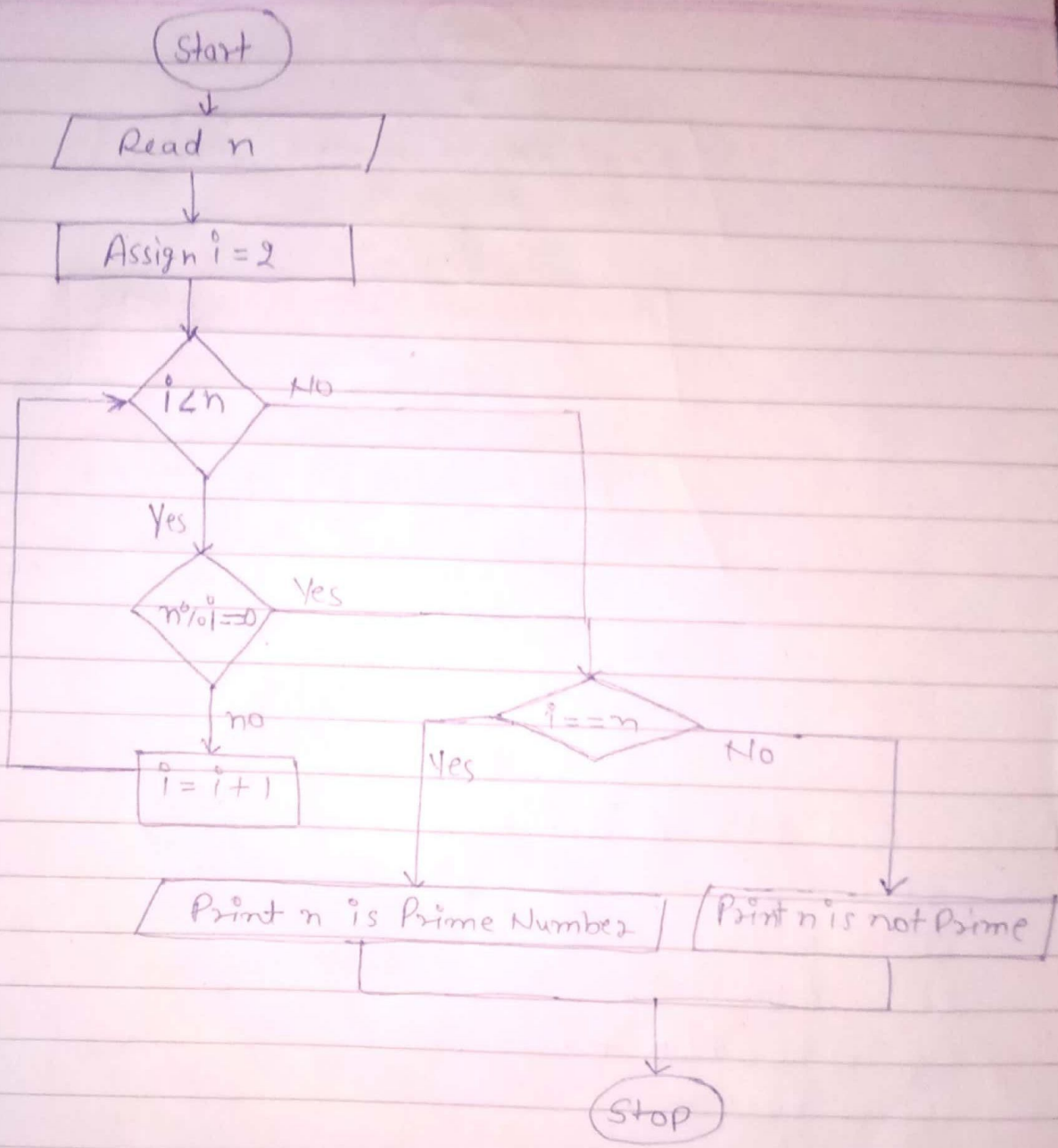


Problem: Calculate the average of 25 test Scores.

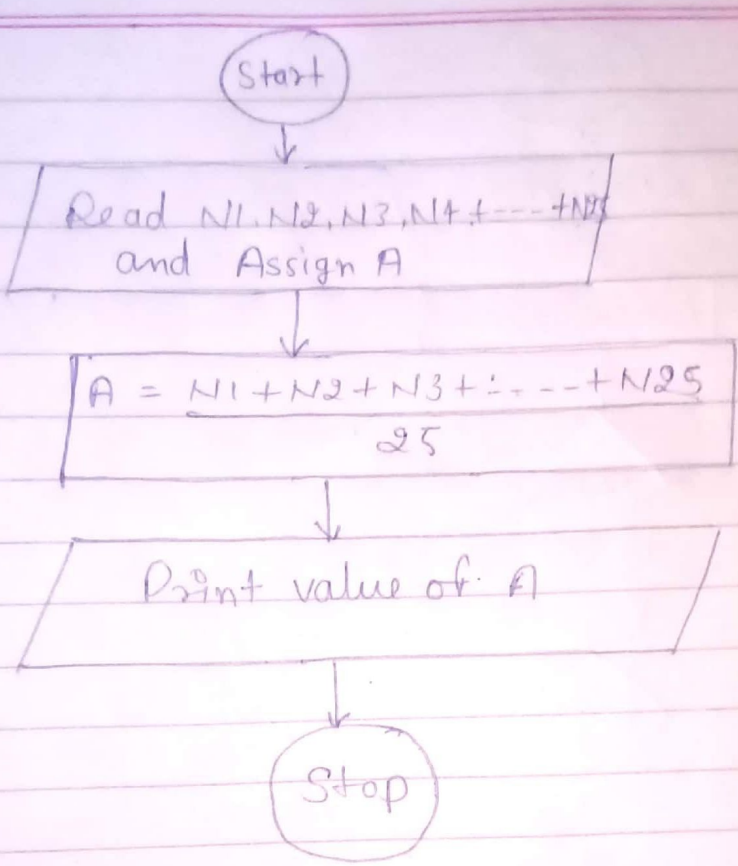
Step(i) Start

Step(ii) Read N1, N2, N3, N4 - - - - - N25, A.

Step(iii) $A = \frac{N1+N2+N3+---+N25}{25}$

Step(iv) Print A

Step(v) Stop.



Problem: Print table of any Number N (say 7).

→ step(i) Start
step(ii) Read n
step(iii) Assign i.
step(iv) check i ≤ 10 if Yes goto step(v)
step(v) n × i
step(vi) i = i + 1
step (vii) Print n × i
step (viii) stop