

09/23

Data Structure and Algorithm

-° Lacture - 01 °-

Problem

-° Flowcharts :-

Problem Solving Skill:-

- Understand the problem
- Given values
- Apply approach / or divide.
- create program.

Problem

Solution

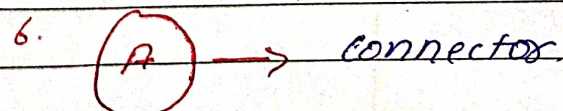
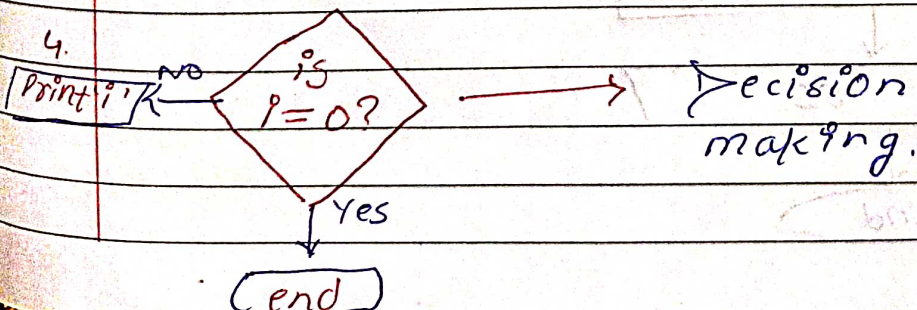
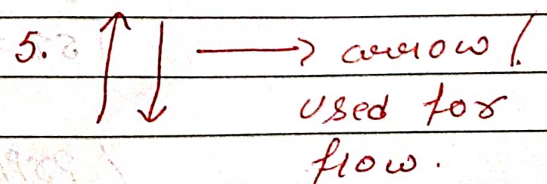
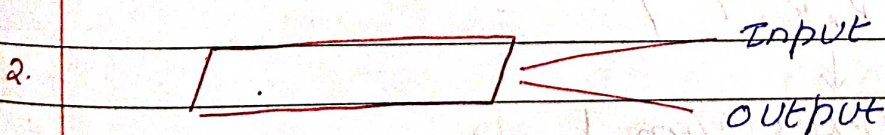
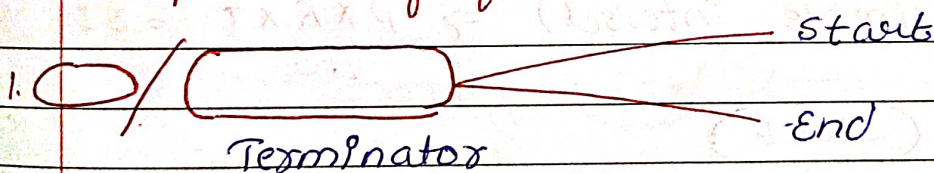
source code.

flowchart/
Pseudocode

Program

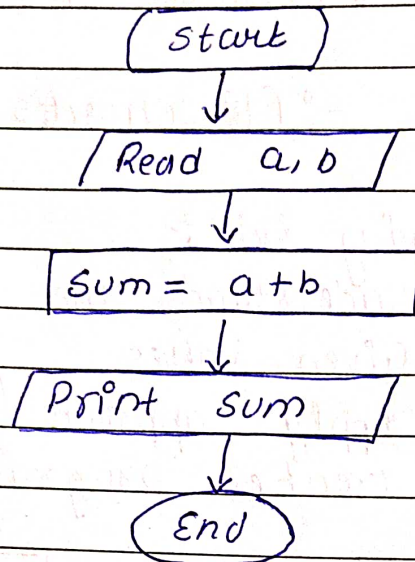
Machine
understandable

= flowchart:- It is diagramtrically approach
* component of flowchart :-



= Draw flow charts

a) sum of two number.

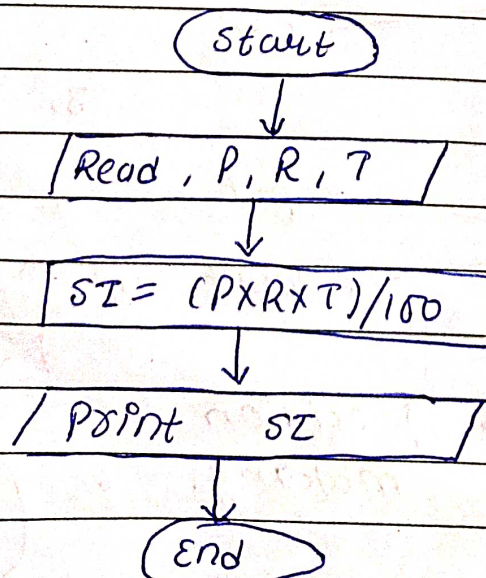


= Pseudocode :- way of representing logic

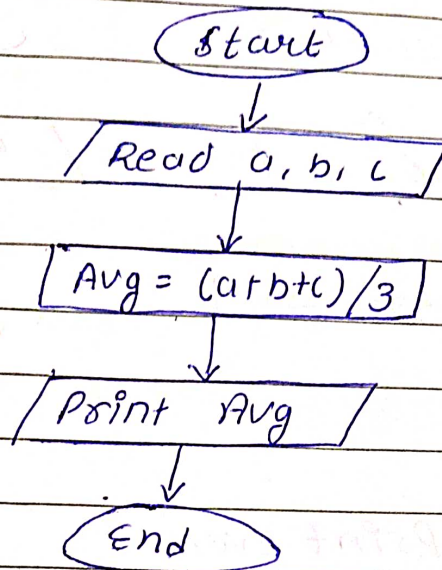
sum of two no.:-

→ Read 2 no. a & b
 → sum = a + b
 → print sum.

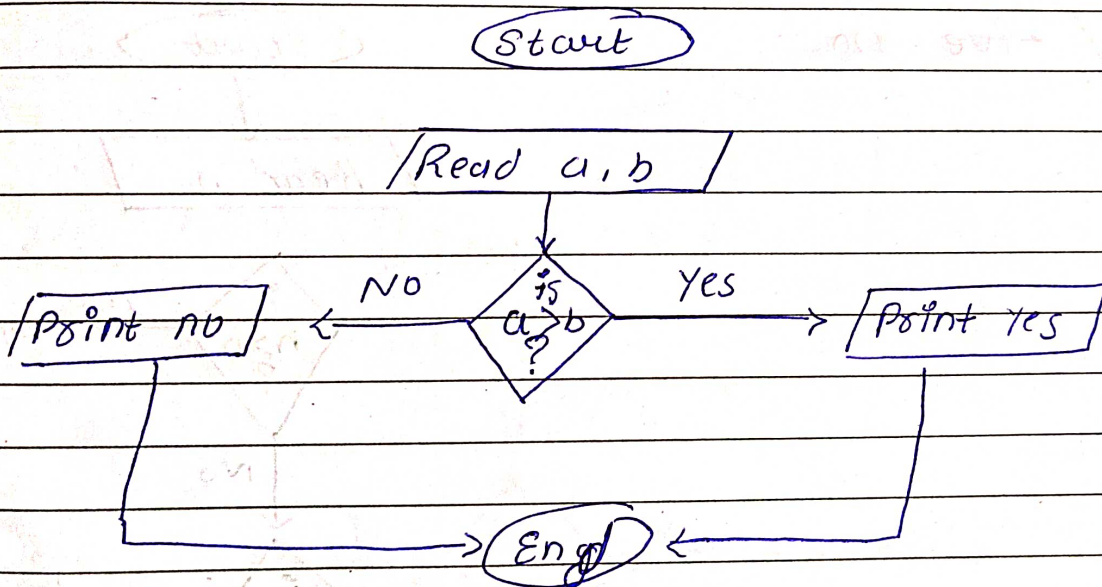
b) calculate SI (simple interest) $\Rightarrow P \times R \times T = SI$
 no.



c7 Average of 3 no.



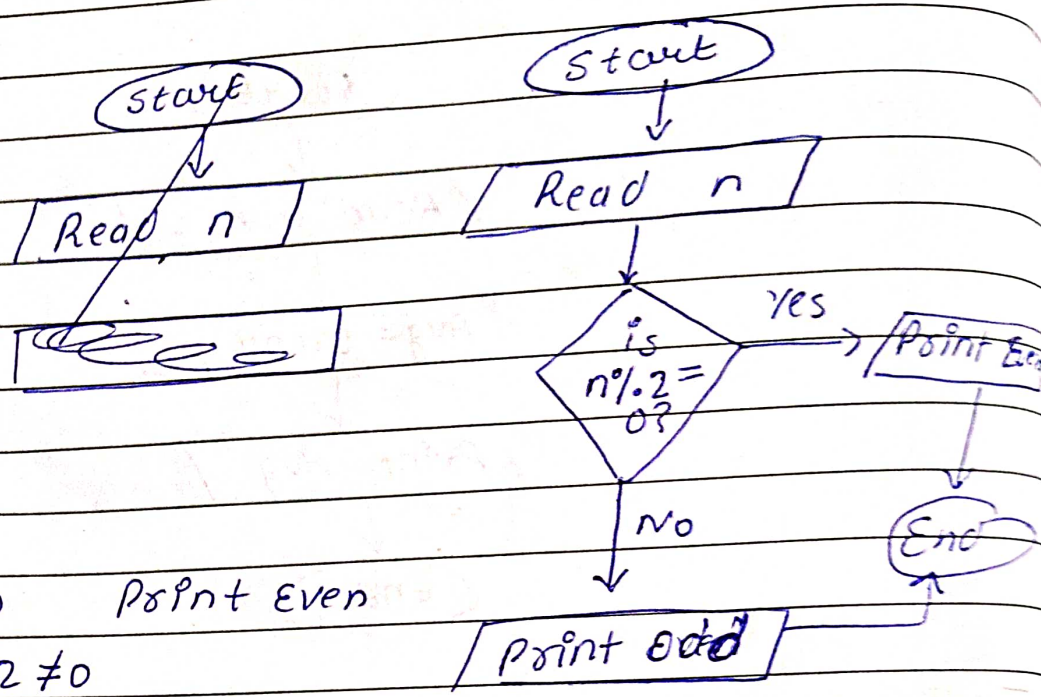
d7 Compare $a > b \rightarrow$ print yes otherwise no.



Pseudocode:-

\rightarrow Read a & b
 \rightarrow If $a > b$ print "yes"
else print "no"

e = odd / even :-



→ Read n

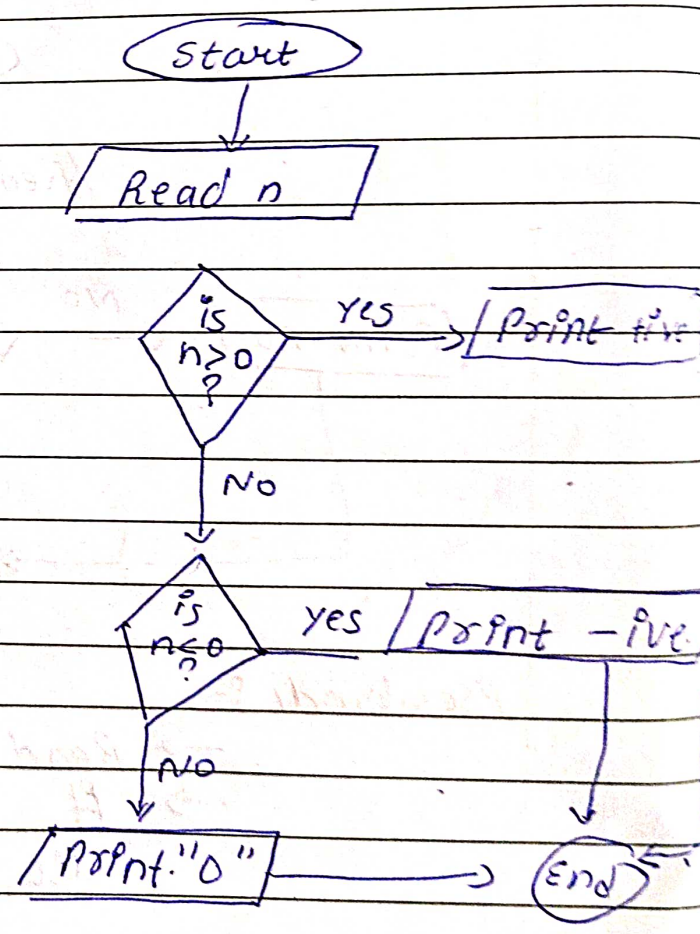
→ if

$n \% 2 = 0$ Print Even

else $n \% 2 \neq 0$

Print odd.

f. tive / -ive no.



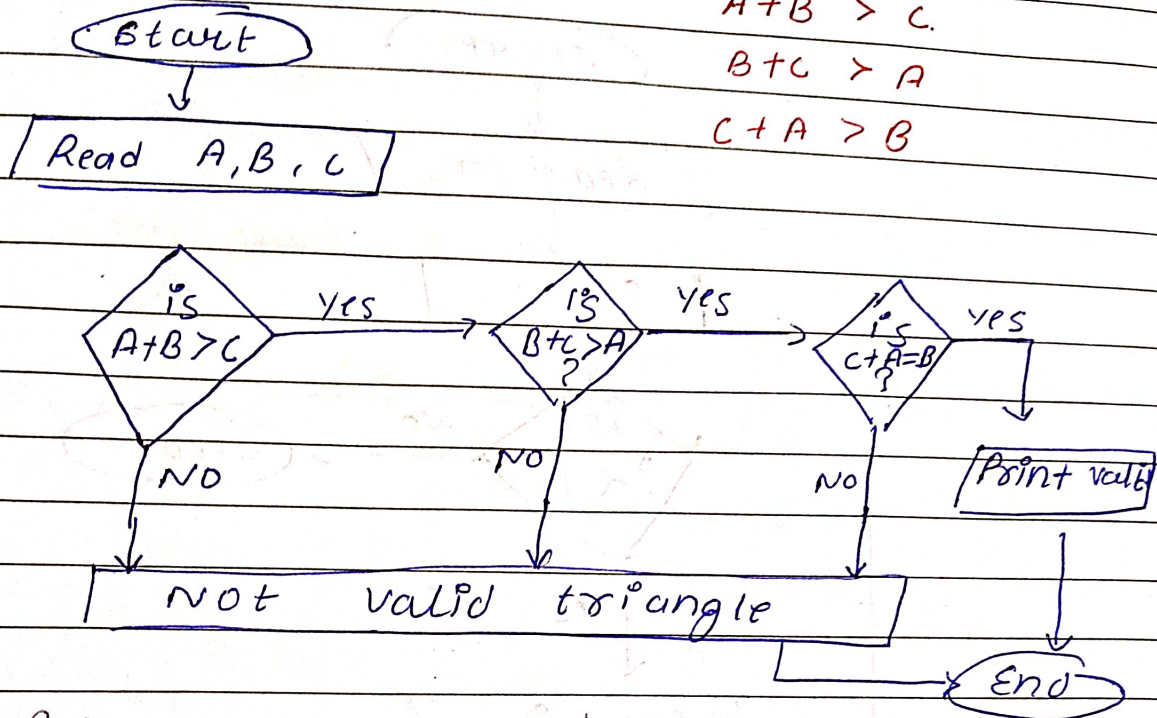
→ valid triangle / or not

condition

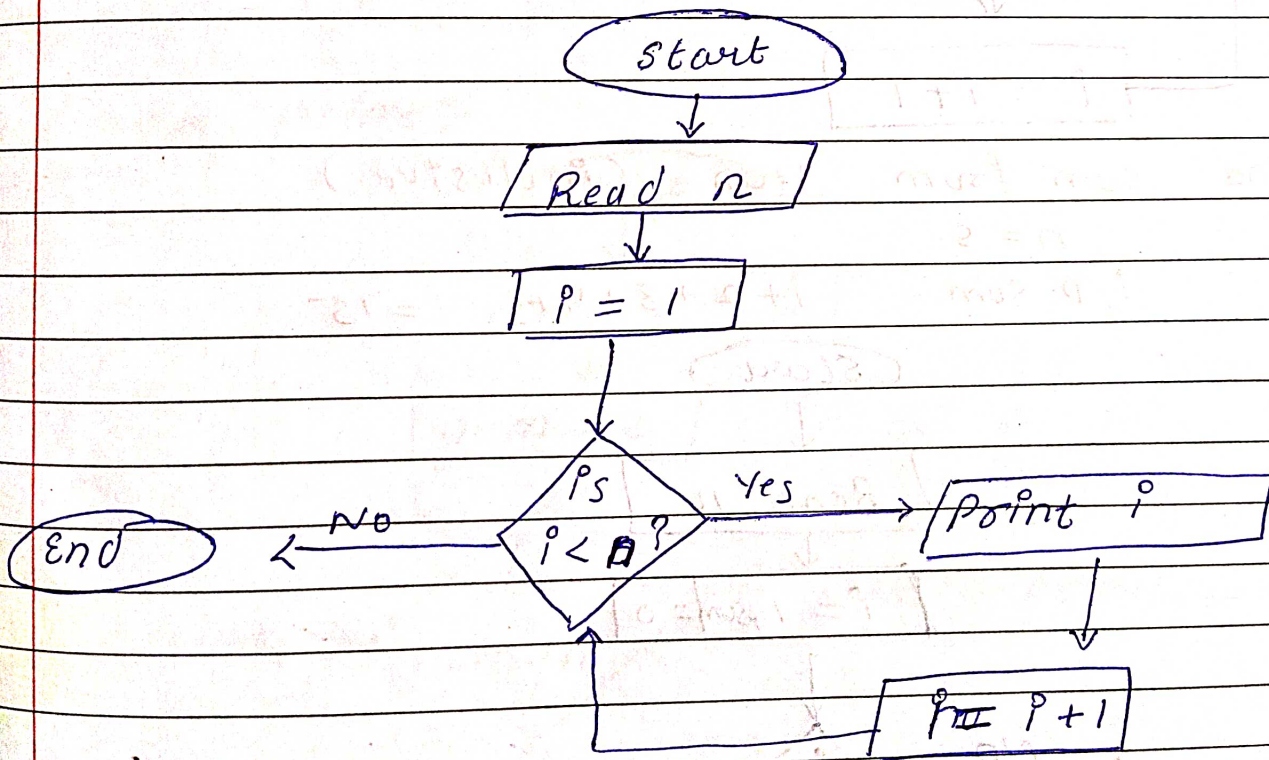
$$A + B > C$$

$$B + C > A$$

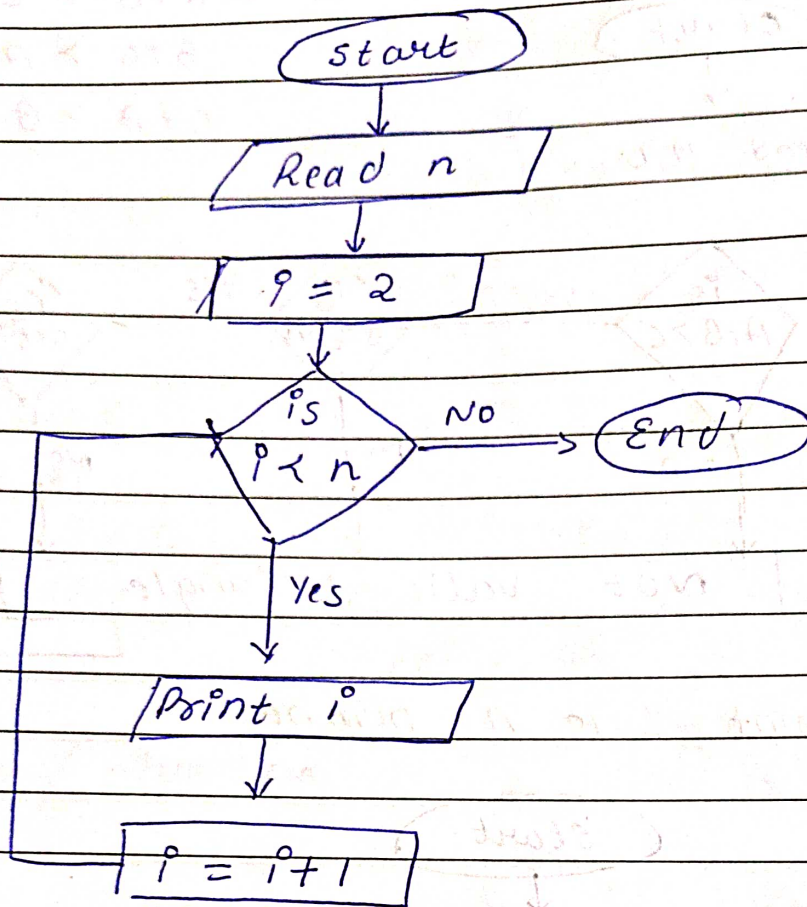
$$C + A > B$$



= loops or Print 1 to n number



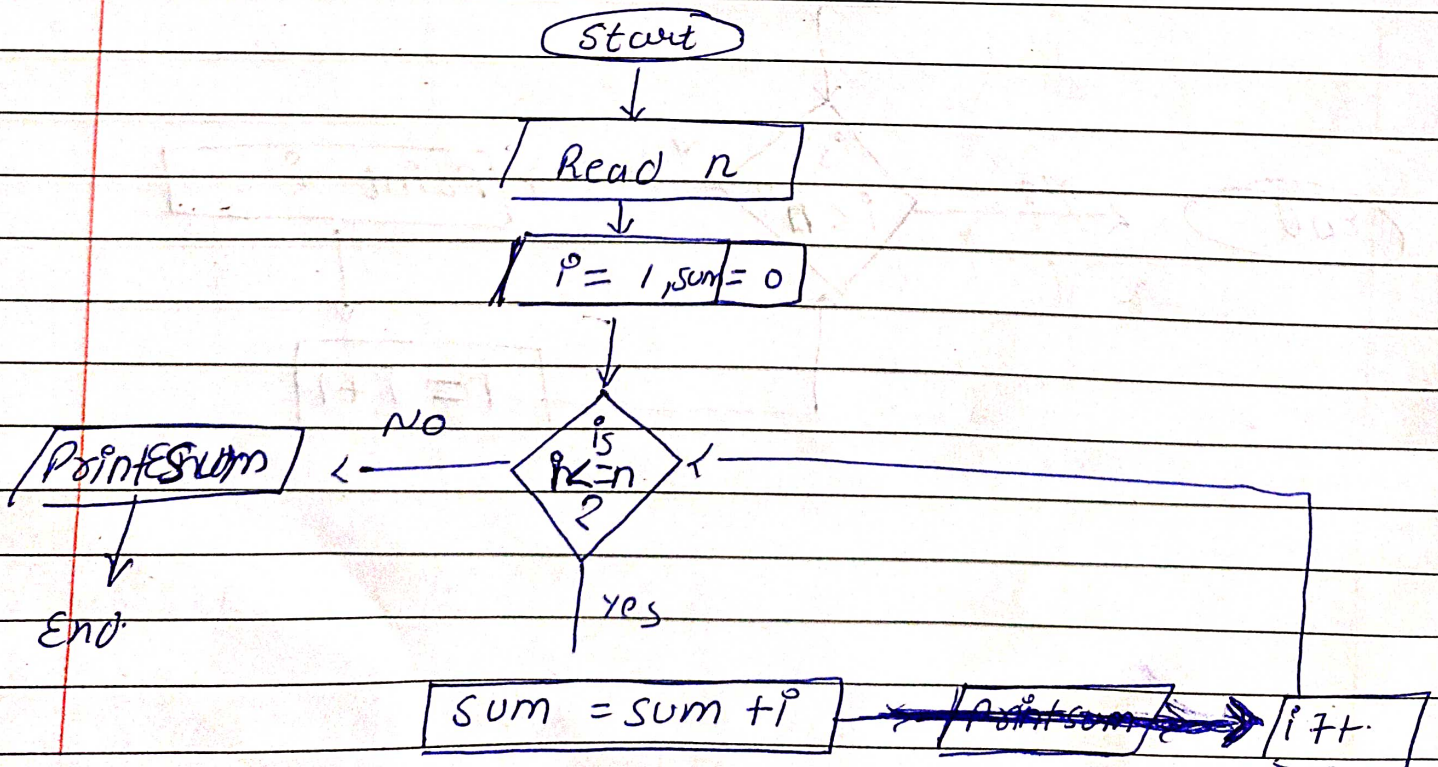
Print 1 to n Even number



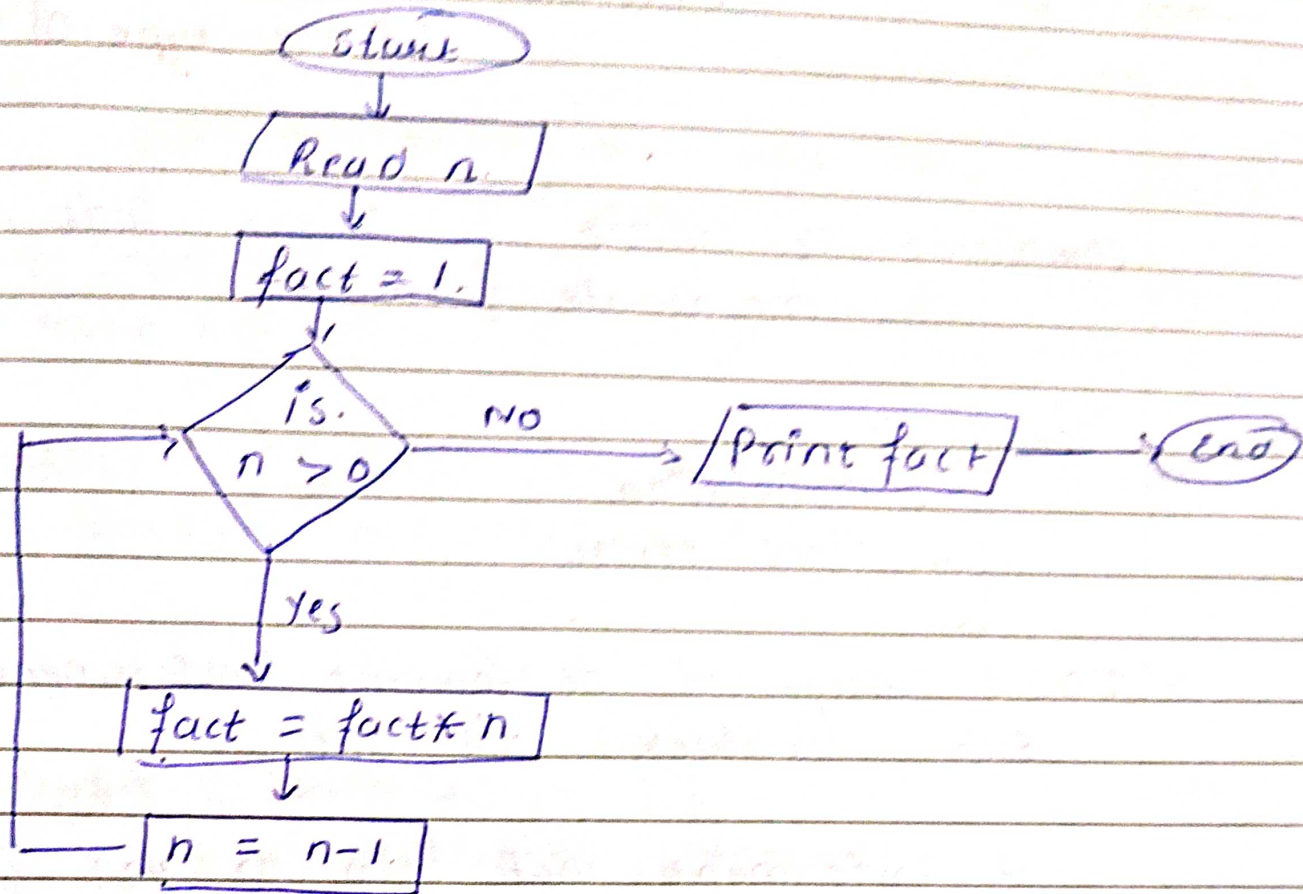
Q7 find sum from 1 to n (inclusive.)

$n = 5$

i/p Sum = $1 + 2 + 3 + 4 + 5 = 15$



7) find factorial.



8 check prime?

