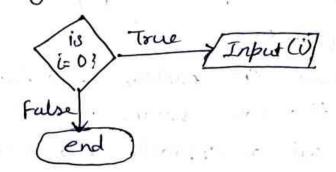
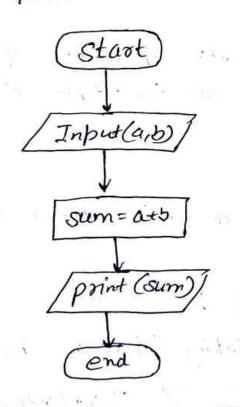
Introduction to Programming and Flowchart 1)
of How to solve a programming problem?
inderestand the oxider - Add 2 num
(2) check the girin values
3 figure out an approach -> atb = are
(a) code int ans = atb;
cout «ans « endl;
Pseudocode: A very simple and high level form of computer language that its used in program
design.
A flowchast is a diagramatic representation of an
approach. This closure out all the steps of our
approach in order:
Components:
1) Terminator: Specifies the start and and of a
program
(Starts/ End) Terminder
. @ Parallelogram: For taking input or showing output.
Input/Output
3 Proces: Operations and process ke lige
i=i+1 or for scop

4 Decision Making: (Diamerel Shape)



- 3 Circle: Connectors (70 be covered whon wediscuss function/methods)
- 6 Arraw: To show the flow of code

Example Flowchost for adding two numbers



Pseudocode for adding 2 num

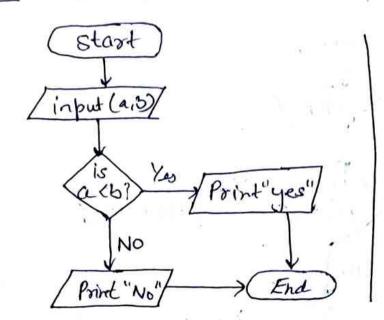
Disput 2 num a and b

Het sum = att

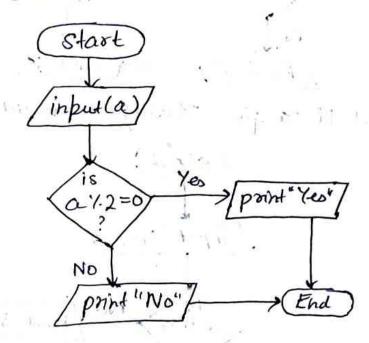
- -> Paint out sum
- D → Read a and read b → Sum variable is all
 - + Sum

· Both pseudocado are OK. No pseudocade is wrong as long as the logic is same/similar

Example: Determine if all

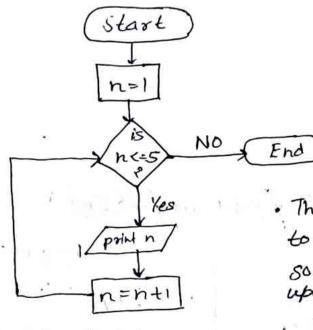


Example: Check if n is even or odd



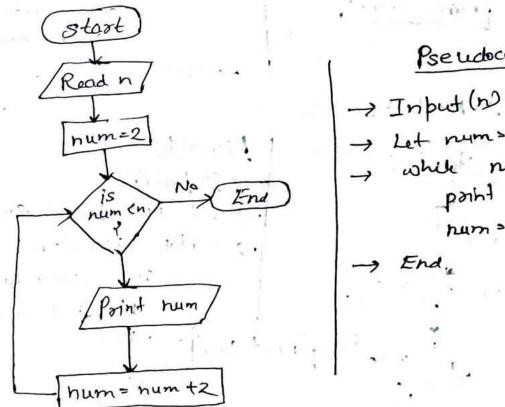
Let variable n=1

Now make n go from 1 to 5



This whom we use loops to continuously perform some action some value.

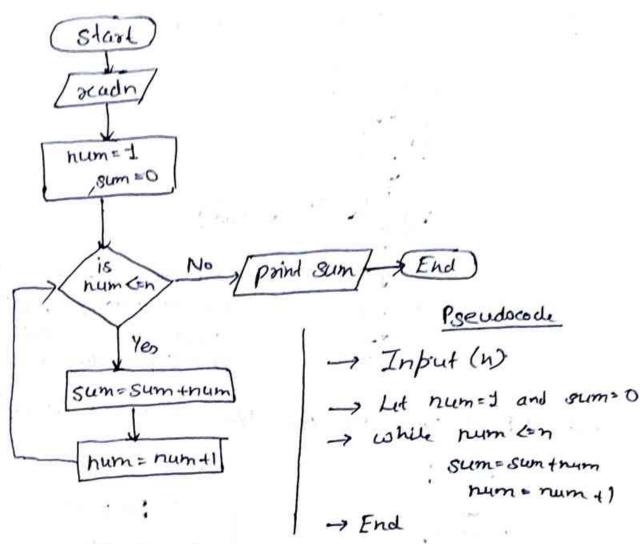
b/o I and n. (exclusivy) Example: Point even



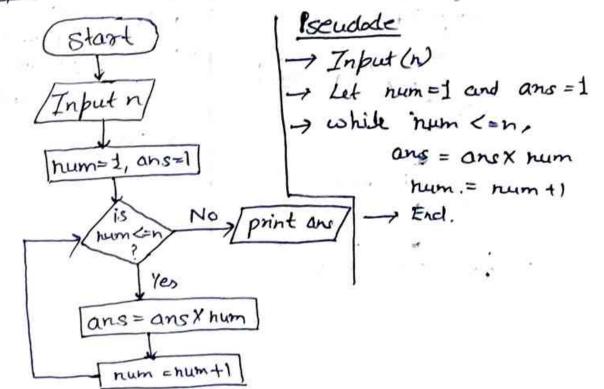
Pseudocode

- Let nym > 2
- while num <n, parht num hum = noum+2

Ç.

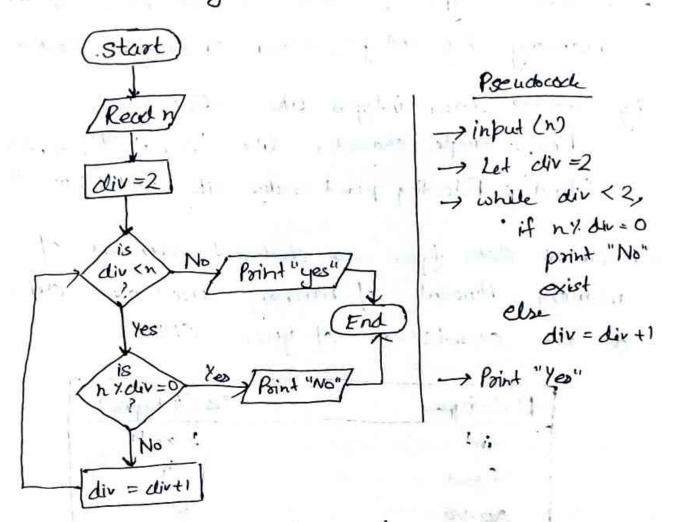


Example: Find n!



Example: Check if n is prime

Hint: 7 ny (any number from 2 to ne) +0



What is a Programming Language?

· A programming language is a way to communicate with a computer. It is a Jormal language which conside of sets of storing that produce various kinds of machine output

Eg: C, C++, Java, Python, R, GO, etc

⇒ Source code - Combiler -

· A computer essentially only understands binary codes of 0s and 1s. A compiler process the statements of a poogramming language into Machine code (Binary)