classmate Saturday
Date 3/08/024
Page 1

Types of Languages

Procedural | Functional | Objed Oriented

1] Procedural -

- Specifies a series of well-structured steps and procedures to compose a program
- Contains a systematic order of statements, function and Commands to Complete a task.

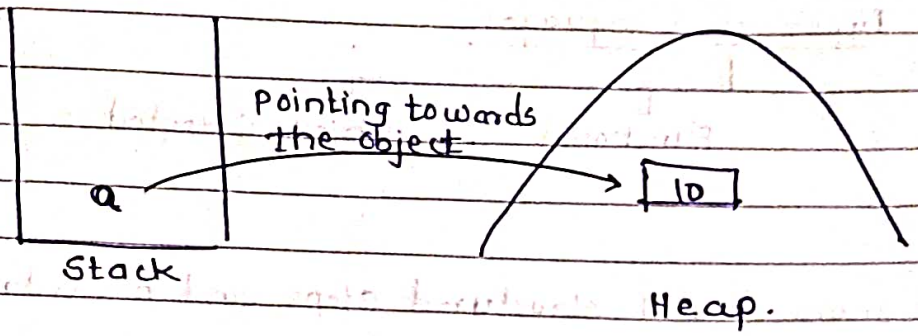
2] Functional -

- Writing a program only in pure function ie. never modify variable but only Create new ones as an output.
- Used in situations where we have to perform lots of diff^ operations on the same set of data, like ML.
- First class function.

3] Objed Oriented -

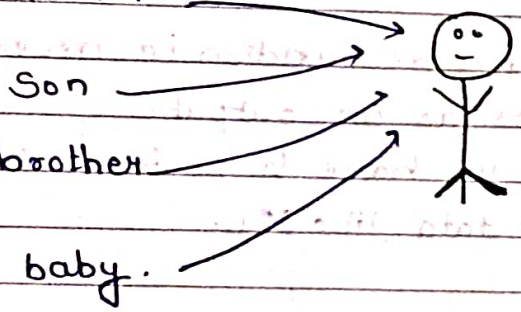
- Revolves around objects.
- Code + Data = objed.
- Developed to make it easier to develop, debug, reuse and maintain software. ex. Java, Python, C, C++,

Static	vs	Dynamic Language.
- Perform type checking of compile time		- Perform type checking at Run time
- Errors will show at Compile time		- Errors might not show till pg is run
- Declare datatype before you use it		- No need to declare datatype of vars.
- more Control		- Saves time in writing code but might give error at runtime.



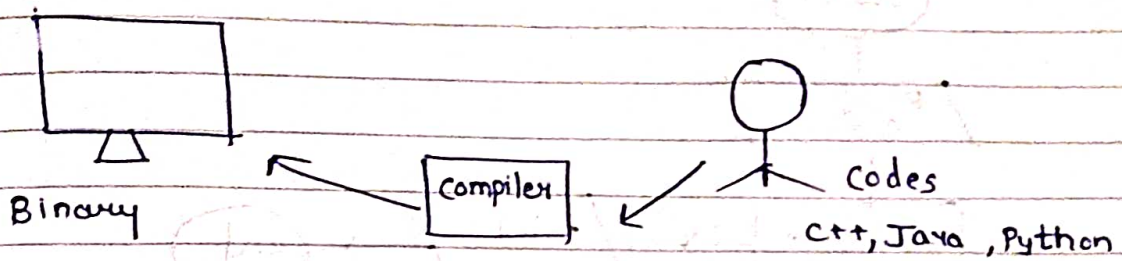
a = 10 → object.
↓
ref variable

Name = "Kunal"

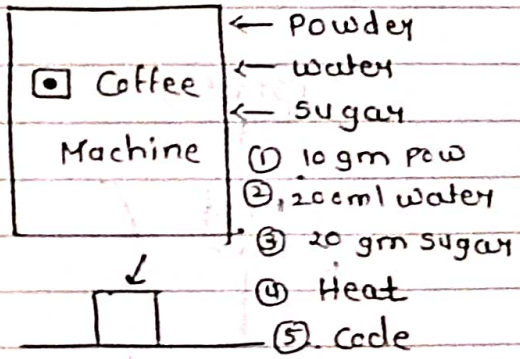


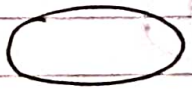
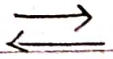
a = [1, 3, 5, 9]
b = a

Flowchart & Pseudo Code -



1. Understand
2. Given value
3. Approach
4. Code
5. Error / debug
6. Other Solution



1.  Terminal (Start & end)
2.  Parall (IIP, OIP)
3.  Process
4.  Decision
5.  Arrow

Q. Sum of 2 no. (a+b = ans, 2+3 = 5)

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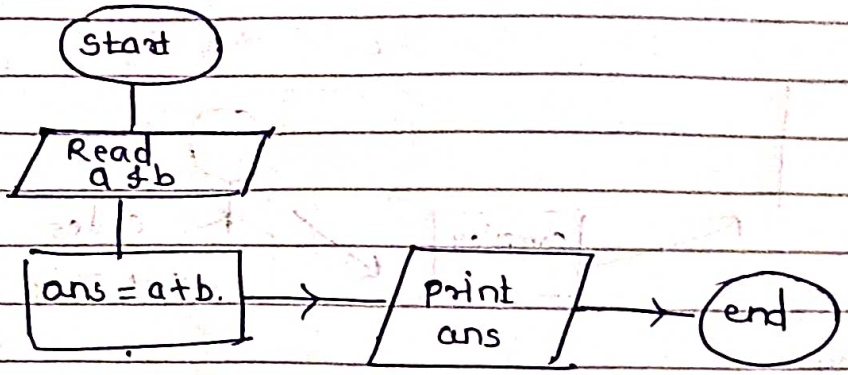
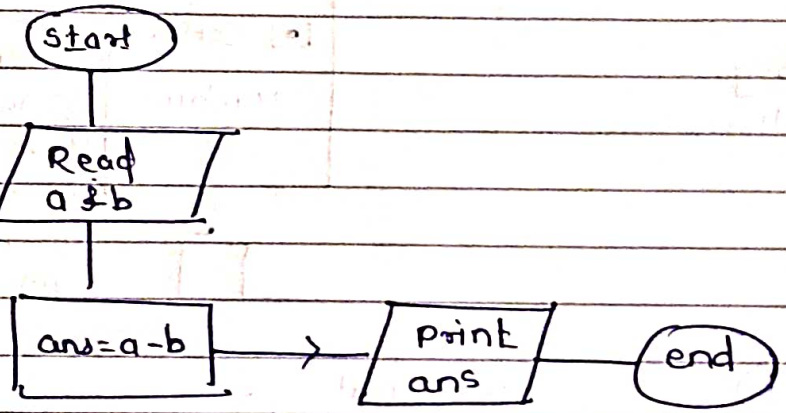
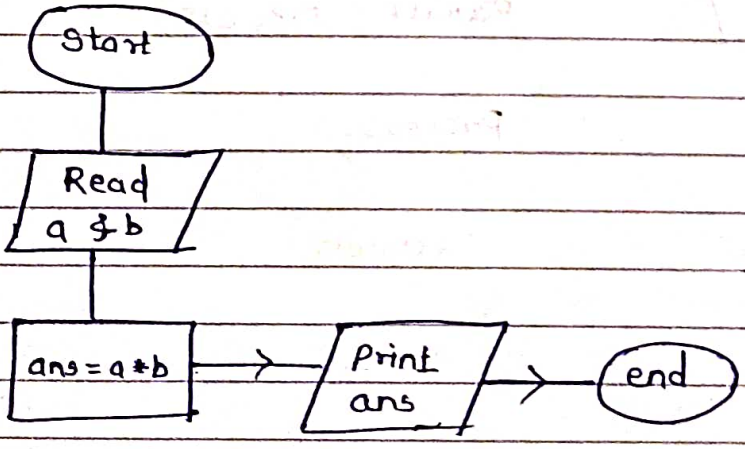


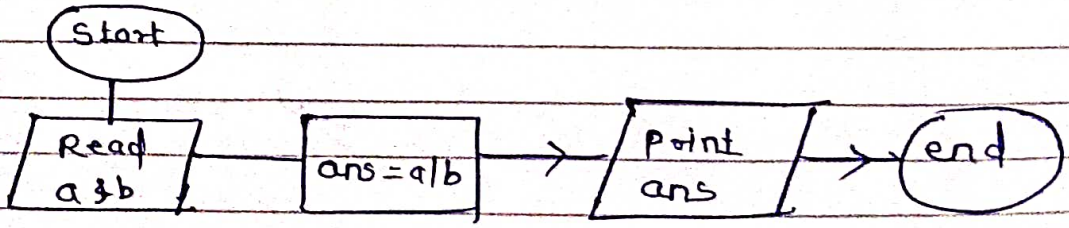
Q. Sub 2 two no.



Q. Product of 2 two no.



Q. Divide two no.



Q: Avg of two No. $\frac{a+b}{2}$

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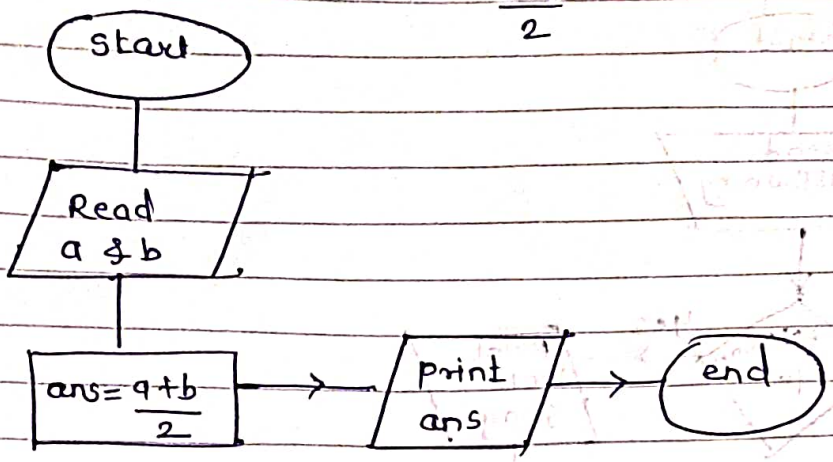
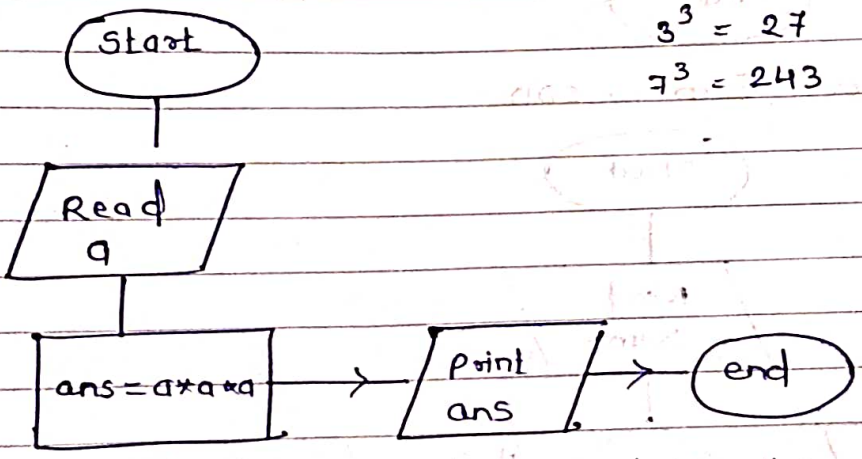


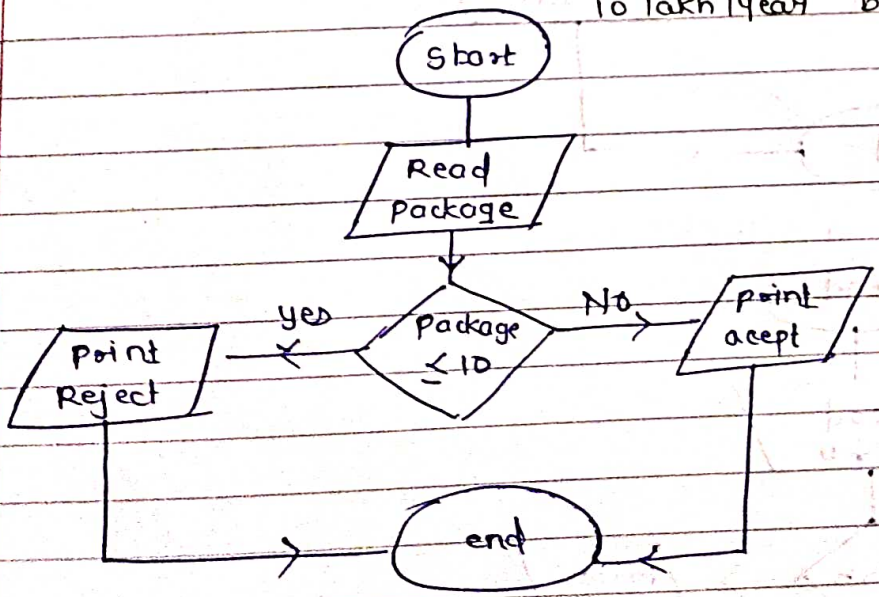
Q: find cube of a number.

$3^3 = 27$

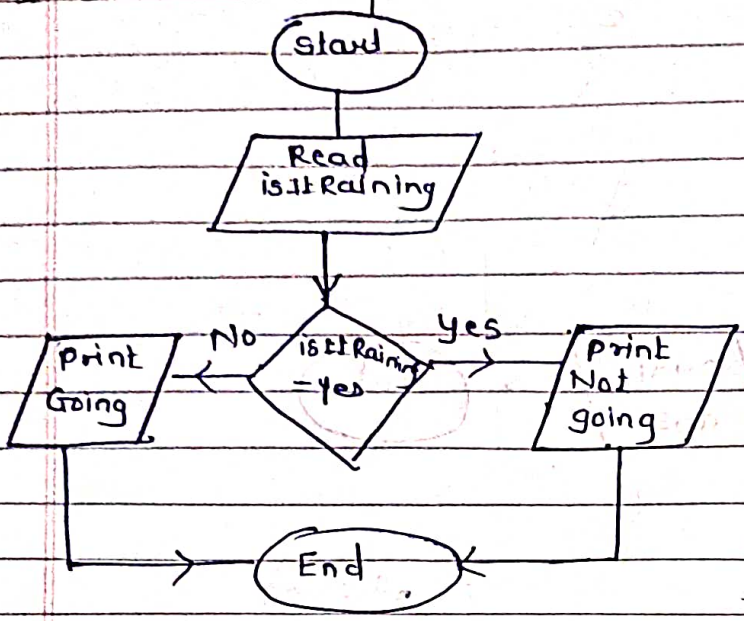
$7^3 = 243$



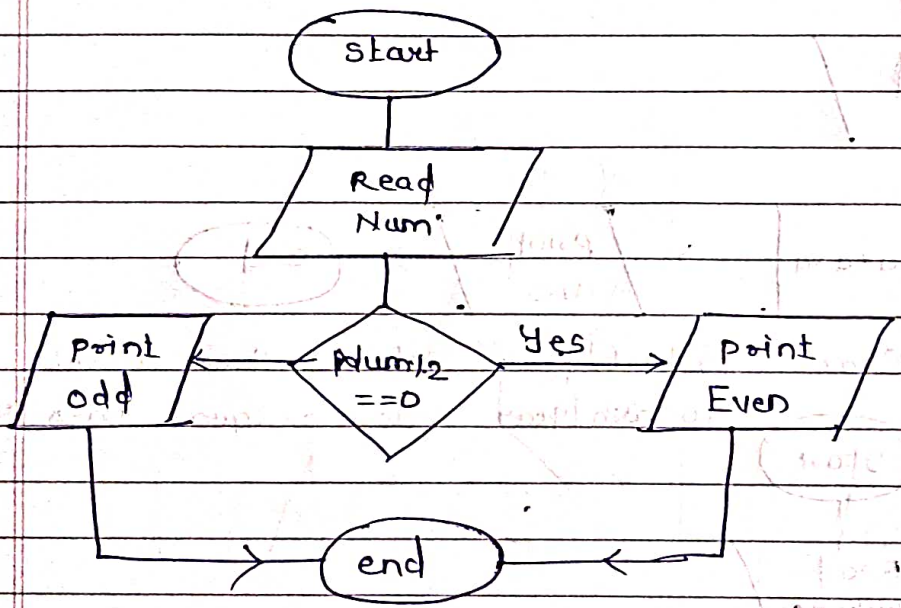
Q: MNC - Interview Crack. 10 lakh/year above then Accept
10 lakh/year below or equal then Reject.



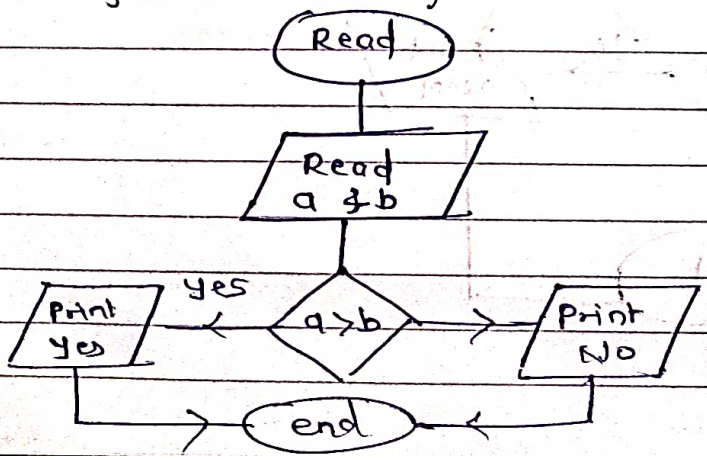
Q Outside Raining Condition-



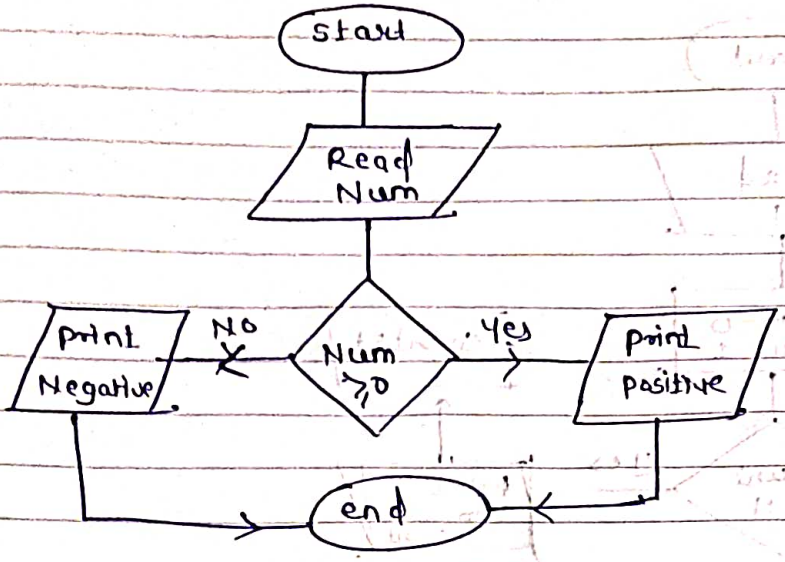
Q Number: Even or ODD



Q: Print greater No in a & b.



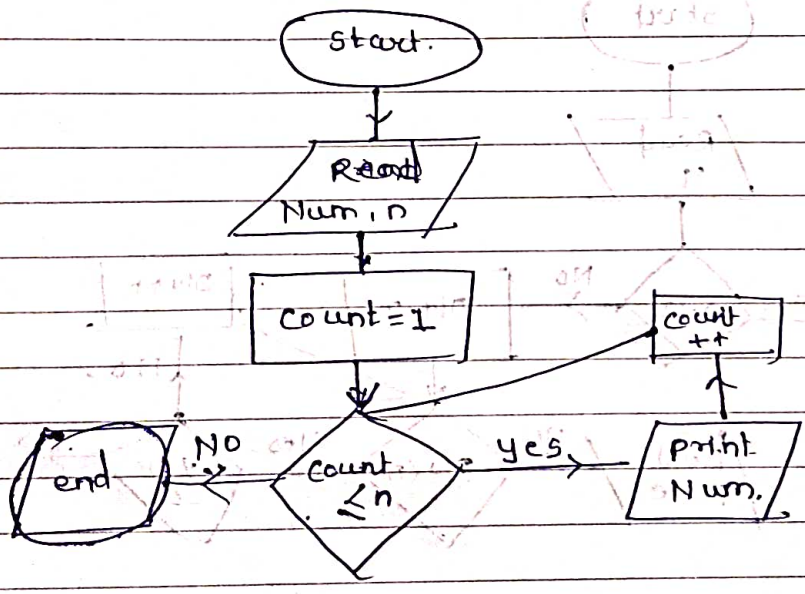
Q: Check the Number is +ve or -ve.



Loop Concept-

Do the same Task Repeatedly use the Loops.

Q: Print the Num 10 times.



Q: Print 'N' Natural No.

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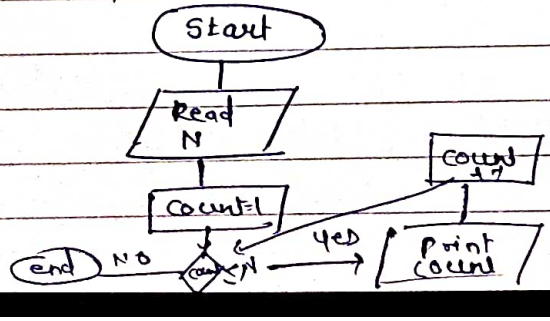

Q. Sum of 'N' Natural Number.

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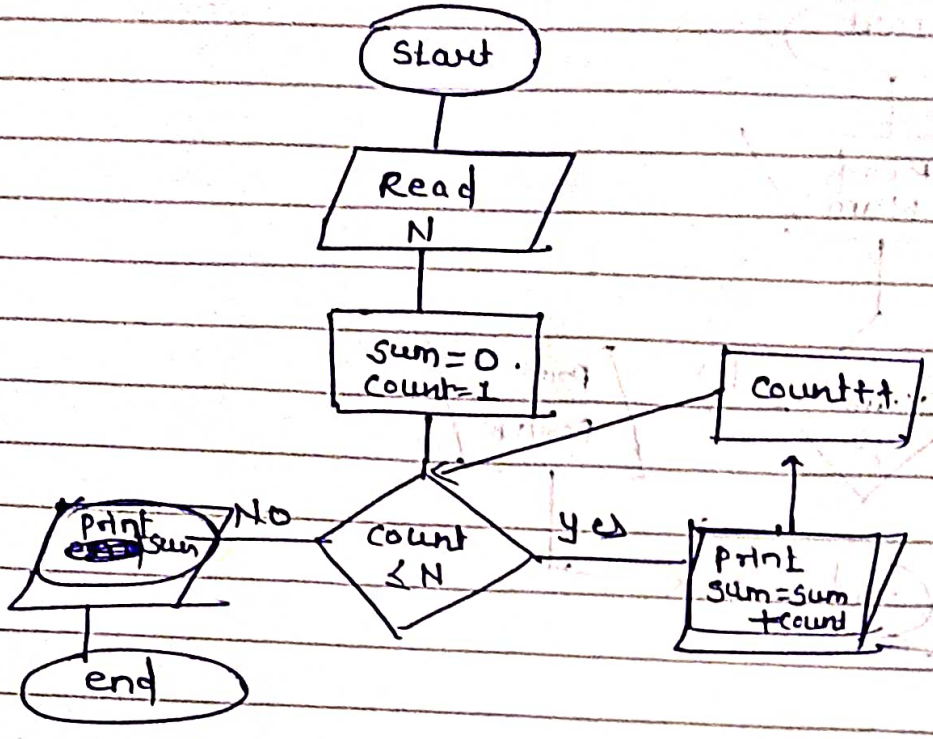

Q. Given Number is Prime or Not.