(x): Types of Translators

- (i) Compiler:

  Compiler translates whole program at once and they generate intermediate machine codes.
- (i) Interpretur:

  Interpretur translates single line at a time and
  they never generate intermediate machine codes.

## STRUCTURED PROGRAMMING

& Problem Solving: Steps:

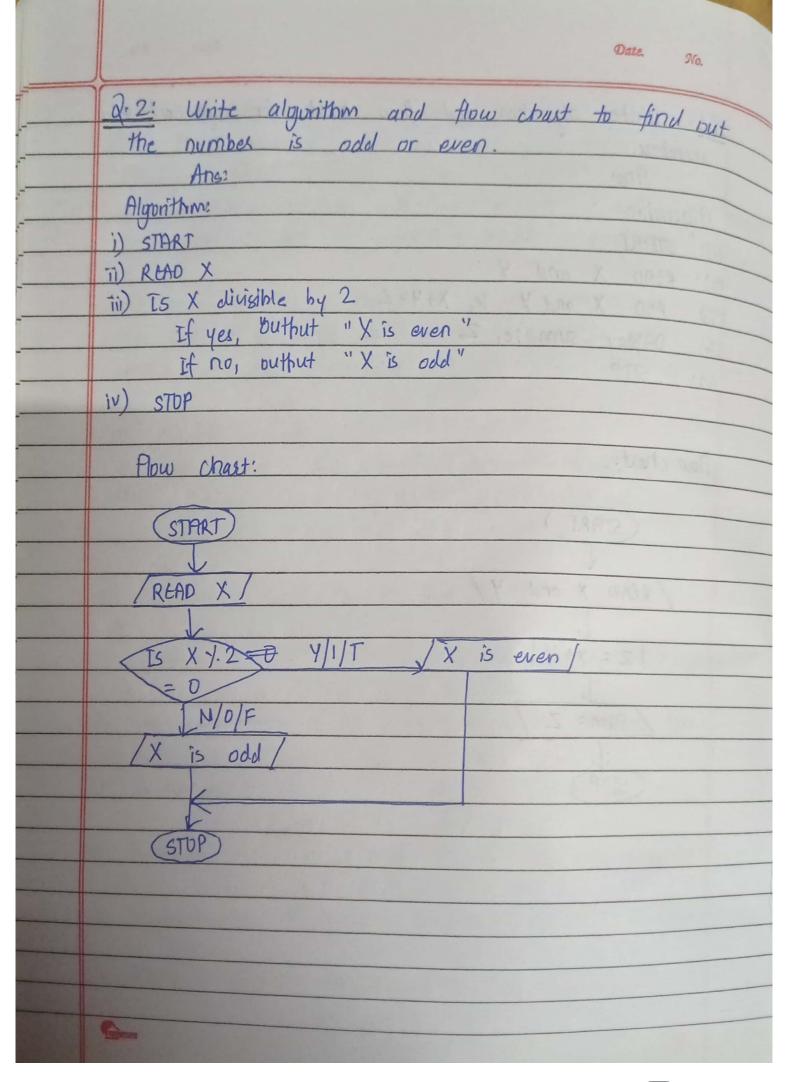
- i) Problem Analysis!

  We determine the input and the output desired and check whether the presentation and processing is possible or not.
- ii) Algorithm Development & Flow Chart:

   Algorithm: Sequential representation of proceduse.

  -flow chart: diagram matic representation of algorithm
- Analysis of suitable platform is done and codes are written using high level language.

Date No. 8.1: Write algorithm and flow chart for sum of two numbers. Ans: Algorithm: (ii) READ X and Y
(iii) ADD X and Y ie, X+Y=Z (iv) Display sum ie, Z flow chart: START READ X and Y/



Date, No. Q.3: Write algorithm and flow chart to find out which number is greater. Algorithm: STAIRT ii) READ X and Y Tii) IS X > Y, if yes, output "X is greater" if no, output "XY is greater" iv) STOP Flow start: (START) READ X and Y YIIT/X is greates

To fully utilize PDP 11 processor and it's functions, C programming language was evolved from B programming language by 'Denise Ritchie' in 1970 at Bell Telephone Laboratories. # Ir # Introduction to C TC-programming language is a system programming

language

+ C-programming is structured programming language | p.l.)

- interacts with hardware using hardware software interface using device drivers. > presence in OS, compiles and in database.

>in OS: Unix 2-writer using C

•) in database: MySQL, ORACLE - procedural p. l. because we use functions to do tasks # Importance | Benefits of C. Features of C i) It provides benefits of both LLL and HLL ii) It has very less compilation and execution time due to less embedded functions. iii) It is develops logic and it is buce of all logical problem programming languages. Charge



	# Dexired Program Characteristics:
1000	This also means characteristics of a good program.
	i): Clarity: Code must be written dearly and  presentation of codes must be properly done.  Eg: don't do all in a single line, giving spaces.
Service Control	ii) Accuracy: The logic or calculation that is instructed must be kept accurate and must not have double meanings
	simple and to the point.  Eg: not including loop in a single program.
	(w): Efficiency: For a single program minimal codes should be written such that execution speed is high and effective utilization is possible.  9g: 10 line unde is better than 100 line code for same purpose.
	(v): Modularity: Programs can be broken into small modules helping to increase clarity and accuracy, ie, module editing is easies than whole program.  (vi): Generality: Program written must be general and within reasonable limit. This helps the people other than the developer understand.
	<u>Gar</u>

