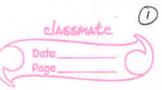
## Algolithm



	Definition (s)
-	A Set of rules for solving a possblem in a finite number of Steps
ě	A Set of Steps that are followed in order to Solve a mathematical problem or to Complete a Computer process.
	An algorithm is any well defined computational procedure terat takes some value(s) as input and produce some value(s) as
	Output.
Char	aetesistics
	Juput - Accept zero or more liputs exemally
2.	Output - must produce at least one output as result of procedure
3-	Definiteness - Each instruction must be clear and Unombigous.
4.	finiteness - Instructions in algorithm must terminate after a finite number of Steps.
S.	Effectiveness - Every instruction must be very basic so that it can be convived out and must be feasible to perform on any
	machine.  Problem
6.	Correct
7.	Efficient Supert -> Compute ] -> output
8.	Easy to implement. Notation of the algoritum

(AJAY RAWAT)

Exam	ble - To add two numbers
-	
	English language type
	Ask user to enter two integer numbers.
	Add both integer numbers.
	Perist the final sum volue.
14	Pseudo code type
	Algoritum SOM
	Input: Two integer no as ONE, TWO
-	Dutput! Sum of one and Two as RESULT
	put,
	ONE - User input required
	Two & User input required
	RESULT & ONE + TWO
	relien regult.
ū	ow Chart (Start)
	Enter integer
	L one
	Enter integer
	TWO
	RESULT = ONE
	Turb .
	PRINT RESULT
	(END)
	× ·

Almy souring

Algor	itum Process
	Understand the foreblem
	Decide on Condutational
	Decide on: Computational means, exact vs approximate solving Data Structure, Algo Design Tech.
	Data Structure, Algo Design Tech.
	Design an algorithm
	I a contract of Carle makes to IT have
	Prore Correctness (with mathematical Induction)
	Analyze the algorithm)
	Code tue algoritum
	Algorithm Delign and Analysis process
	The state of the s
Why	algoritum
	It is important to work in the field of Computer Screence
	Routing Commynication notwork use Shortest path algoritum
- 1	
2)	Effectiveness of public key Coyphography relies on number theory
	algoritum
3)	Computer Graphics need the Computational primitive Supplied by geometric algorithm
	by geometric algorithm
4)	Database indices vely on Balanced Segren Tree data Structure.
T	
5)	Computional biology use Dynamic programming algoritum to measure genome
	measure genome



	Page
6)	Search anging use alon to efficiently compute the relevance
	Search engine use algo to efficiently compute the relevante of various uch Pages to 148 search
	The state of the s
7)	google use lage Rank algorithm
Dilter	out Types of Boblem
3	
()	Exact Solution
200	Approximation Solution
	Optimization Solution.
Imp	Problem Types
	Sosting
and the same of th	Segraning
	String processing
	graph problems (TSP, Graph Colony problem)
5)	Combinatorial foroblam
5)	Geomethic problems (Closest pail prob, Convex hall forob)
1)	Numerical problems ( Definite Integral, solving eq, evaluating function)
	of photos to the wife of the party of the state of the
Gene	ral approacu to algoritum Design
	Divide and Conquer
2)	Greedy metrod
3)	Dynamic Proframming
4)	Basic Search and Traversal Technique
5)	Goaps theory
6	
2000	
8)	NP Pooblem.
	The manufacture of the second