## Assignment - I

14 Define Algorithm. How algorithm differs

Dale January Land

from flow chart?

An algorithm is a process of a set of sules to be followed to achieve desired output, especially by a computer.

- Algorithm is a step-by-step process

process.
- Algorithm is complex to understand

while flowchast is easy

- It takes more time to create an algorithm compared to a flowchast

- Algorithm uses natural language while flowchart uses pictorial format.

- Algorithm is proceduse for solving problems while flowchart is a graphic sepsesentation of a process.

2/ what is vector? which operations are performed on vector?

des vector mean denotines a type of graphicol Representation using lines to construct the outline of objects

- It can also be defined as a quantity having disection as well as magnitude, especially as determined the position of

vigh

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	one point in space selative to other
	Following operations can be performed on vector:
alian kan ang ang ang ang ang ang ang ang ang a	4. Addition (a) + b)
	2. Substraction (a - b)
	3. Multiplication (a.b., axb) The sum of a vectors is a third
The second secon	vertos, sephesented as the diagonal of
	the parallelegram constructed with the
	two original vectors as side.
	when a vector is multiplied with
	is multiplied to scalar and direction
	is same where as it scalar is
	negative disection is sevessed
	Dot product and or chass product are
	also known as type of multiplication of vectors.
	Thus above mentioned operations can
	be performed on vector.
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. 27	List types of Algorithms.
Ans	These are eight types of Algorithm
Antique and a property of the second	These are eight types of Algorithm which is given below:
No. of the state o	
	Simple secussive algorithms Backtracking algorithms
	Divide and conques algoritms
Province was a series	대화 35% 병원에 대화 대회 대회에 1955 대화 교육 2011 시간에 대한 대통 전화에 되었다. 이 아니라 아이 나는 아이지 아니라 아이를 하는 것이 되었다. 이 사람들은 사람들은 사람들이 다

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0	Dynamic programming algorithms Greedy algorithms Branch and bound algorithms Brute force algorithms Randomized algorithms
	Discuss key characteristic of algorithm.
Ans	The key characteristics of algorithm is
	Precision: Boch step of an algorithm must be precisely defined.
8	Inputs An algorithm accepts zero or more inputs.
	Output: An algorithm must generate at least one desisable output.
	Finitenesse An algorithm must always terminate after a finite number of steps
	Effectivenesse AU the operations to be performed in the algorithm must be essential and sufficiently basic.
	Genesality: The algo, should be expressed; a genesic form and must be applicable to a set of all possible inputs