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Assignment - 2

Ansi.

1) Data unstime items: Data items refers

to single unit of values.

of entities sharing exactly the same set of attributes.

3) Entity: An Entity is an Something that has certain attributes / properties which may be assigned values.

values can be numeric an or non-numeric.

Eq. of Data items = XYZ, 12, A

Eg of Entity Name class SEC XXZ 12 A

Expressed

RYZ 12 A

PRY 11 B

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Ans-2. Non- Linean Datasmou Dear Datasmichury 1) In Non-Linear 1) Every element is organised Datasmichure form larranged in linear order. sequence data elements are arranged me at put the ser 2) In Non-Linear 27 Every dement have succession D3 elements are and predessors except arranged in hierarhical. first and last elements. 3) Multi-level involved. 3) Single devel involved. 4) Const be transverse 9) Data elements can in Single run. be transversed in an Single- Run, som small Wed In AI and 5) Used in Software DIP. Development.

Ans-3- Different characteristics of an algorithum is: 1) Finiteness - algorithum have finite steps
and end after finite time
2) Output - algorithum have alcost one
Output.

3) Input - It ion have may Imagnot 3) Input. It can have many inputs. 4) Effectiveness- Each step should have simple and finite amount of 5) Definitioners - Each step must be clear, will be defined and precise. As algorithum is foster than Az alognithum because As algorithum have less No. of inputs than Az algorithum and As algorithum and As algorithum Contain more reuseable variables. B) Time Complexity = An algorithum should take Zus time.

2) Space Complexity = An algorithum should take less space also.

Ans-4.	
Arrays.	Linked list
The same	The state of the s
1) Array's is the collection	1) Linked List is ordered
of similar datatype	collection of elements
	of same type in each
name.	dement connected to new
Percept - Comment	dement using pointers
27 Data elements are stond	2) New elements can
in continuous locations	be stored anywhere
in memoralizated to	and reference is created
Doll San reaches	for the new elements using
De a Octable and out	pointers.
3) Insention and Deletion	3) Insertion and Deenor
operations are difficult	operations are fast
of their owned in Continous	and casy my anne
memory	List.
47 Memory 13 allocated during	4) Memory is allocated
4) Memory 13 allocated during	during nun kme.
5) Array elements can be accessed randomly using array indexs.	8) Random accessing is
accessed randomly using	not possible in Linked
array indexs.	Li3t,
0	Elements will have to
	be accessed Sequentially.
6) Array Sized is fixed.	6) Linked list Size
	pan be grows/ Shnink
	at intershion I delehion.

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Ans & for designing page ranking algorithum used in search engine I will use linked as a Data Smichure. Because in unked list continous memory is not required and Insertion and delchon of page algorithum is less costiler than Array's As, we don't know the no of pages. if we are array's there then, their's an time come that continuous memory get's finished in server and No. other page can be added or del - But, at the same if we use linked List their, is no limitation is of Continous memory allocation, And N number of pages can be added on deleted. 1 Margary is allowed decare in Memor