Assignment no-7



	for implementation of
	Title - To write a program for implementation of
	Title - To write a program various operations. symbol table and perform various operations.
	Problem statement - The symbol table is generated
	La respoiler It is a set of name offinate pairs
2	Perform the following operations on symbol table
	(i) Determine if the particular mame is in the tab
	@ Retrive the attribute of that name
37	1) Modify the attribute of that name
	@ Insert new name and its attribute
4-5	@ Delete a naw and its attribute
	The state of the s
	Objective -
	Dio understand concept of symbol table
F	@ Why symbol table is needed.
,	7.79
	Outcome -
	OUse of symbol table
*	D various methods of implementing symbol table
	5/w and H/w packages - 64 bit linux, G++/GCC
	Concept related theory-
-47 4 B	
	A symbol table is a data structure used by a
. 18 	a language translator such as compiler or interpret
	where each identifier in a program's source
	code is associated with information related to
	its declaration or appearance in its source.
	The source.

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symbol table are used to store information
related to various entities like as function
name, variable name, object classes etc

Symbol table is simply a table which can be either linear or hash table. It maintains an entry for each name in the format: < symbol name, type attribute>

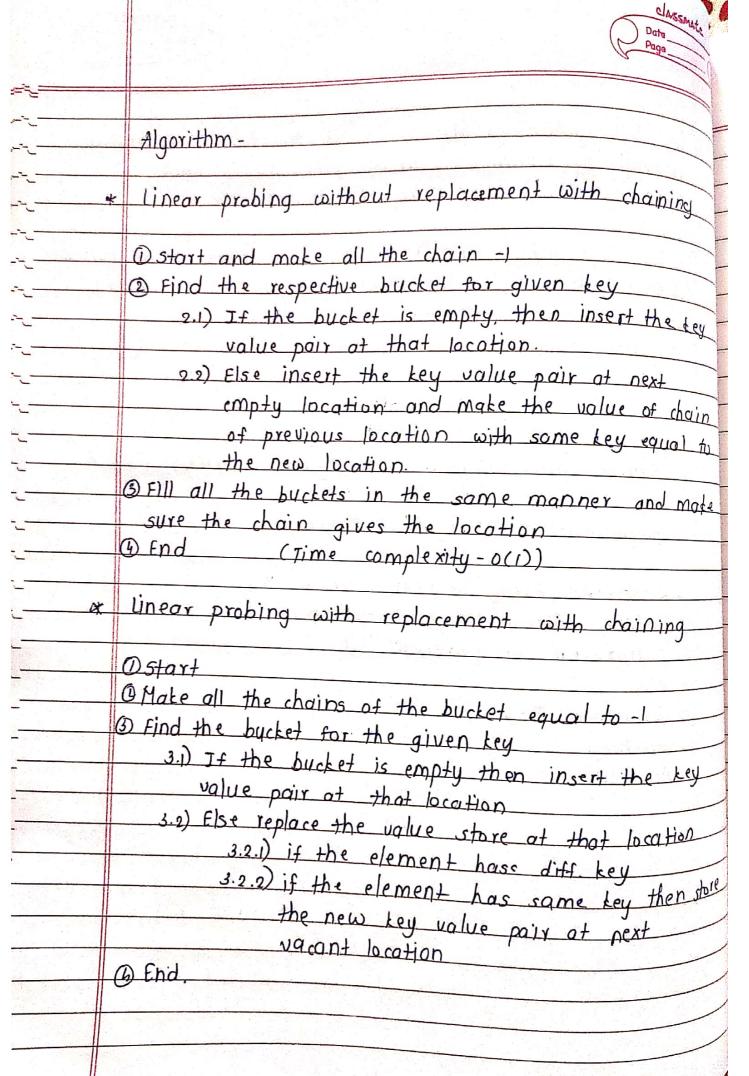
Symbol table

Static Symbol Table Dynamic Symbol Table

* Implementation of symbol Table

- Ounordered Array implementation
- @ Ordered Array implementation

 @ Unordered or ordered list
- (4) BST
- 3 Balanced BST
- O Hashing.



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	Test cases
	Description Expected Actual Result
0	Insert - 0 -78 - (-1) same Pass
	25,35,36,35,57, 1-99-(2) as expected 18,99,89,74 2-89-(-1)
_	Hash function 4 - 74 - (-1)
	key %.10 5-25-(6)
	(without replacement) 6-35-(8) 7-36-(-1)
,	9-57-(-1)
2	Insert 0-55 same Pass
	25,35,36,55,57, 1 - 35 - (0) as expected 78,99,89,74 2 - 89
	Hash function 4
\dashv	key % 10 5 - 25 (1)
	(with replacement) c - 36
	g - 99 (2)
	Conclusion- we were able to implement the symbol table, with chaining successfully.

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