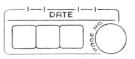
Experiment No:-8



- Title: write c+t program to realize set using Generalized linked list. (GIL)
- To understand the concept of Generalized Linked List (GLL).
- Problem statement:
 write C++ program to realize set using

 Generalized Linked List.

 eg. A={a,b,{c,d,e,f},h,i,{j,k},l,m}. store

 and print as set notation.
- P <u>Outcomes:</u>

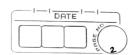
 <u>Result of Applying concept of Generalized</u>

 <u>Linked List as a set notation.</u>
- Hardware and Software Requirements:
 i Operating System: Linux Ubuntu 16.04/windows 7-10.

 2 RAM: 2GB RAM
 - 3 You have to install python 3 or heigher version.



@ Theory:



Such that a; either items or the list of items.
Thus,-

A = (9,192,93, -....,90)

where, n is the total no of nodes in the list.

Dode Structure: -

Flag Data Doconpointer pext pointer

·Flag = 1 -> down pointer exists.

=0 -> next pointer exists.

- · Data means items.
- Down Pointer → address of node which down of current node.
- Next pointer → address of node which is attached to next node.

@ C++ Structure of GLL:-

Struct Gnode

{

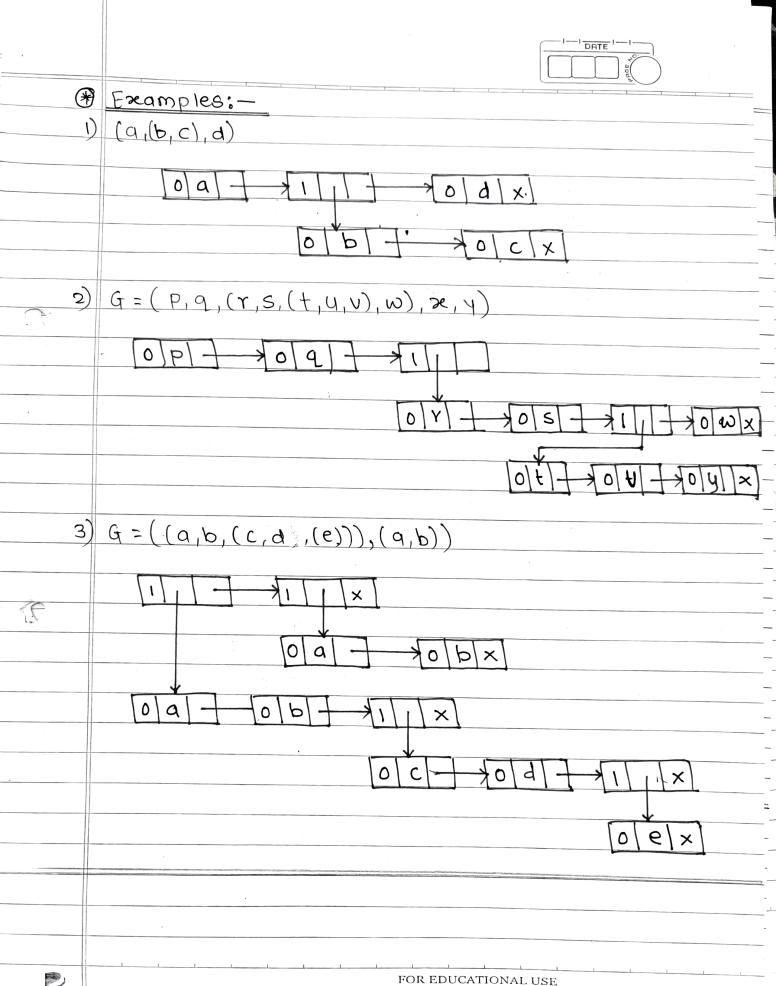
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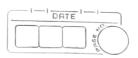
char c;

int ind;

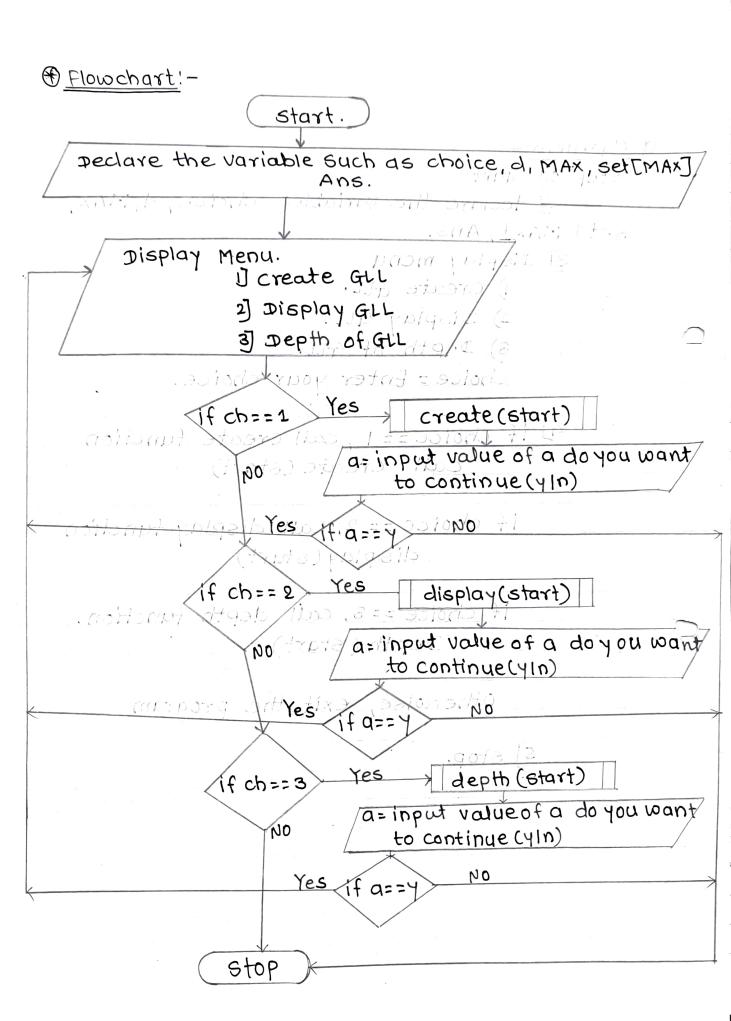
node * next, *down;

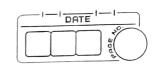
ζ.





(A)	
	Algorithm:
× , 1, 1	Algorithm:- Step 1] start 2] declare the variables choice, d. MAX
	2] declare the variables choice, d, MAX,
	SEILMAXI, Ans.
	3) Display meny desired of the state of the
	1) Create GLL.
	2) Display GU!
1	3) Depth of GIL.
	choice = Enter your choice.
	Carrier State Carrier Annual Carrier
	4) if choice == 1, call create function call octente (start)
/ A.	callocreate (start)
	COLUMN OF COUNTY
	if choice == 2 realidicale 1:
	if choice == 2, call display function display (start)
	STS Play (Start)
	If Choice == 3, call depth function.
2000 /1-	costs a to succe Depth (start)
	(aly) sunitinos of
	Otherwise, exit, the program
	5] stop.
	$(-ie^{i})_{i}$ $(-ie^{i})_{i$
11-31	Kap to soon in a formal sta
	(01:00) (didenos ed)
	34





	®	Conclusion:-
		In this way we can learn how to implement
		Generalized Linked list store and print the
		set notation.
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