no info. of previous value)

\* CONSTRUCTING A NODE :

struct Node § int injo; struct node \* link;

D'. WAP to create a linked list? for Enit ()

# include < statio . h > # include < stalib . h)

# include < conio. h>

# include (malloc . h > + HEADER (LASS for Mallor ()

void insert (); void display ();

struct nocle

{ int info;

struct node \* link;

typidej struct Bode Node

void main 1)

1 int choice; char ch = 'Y';

node \* start = NULL, \* plr, \* nw; while (ch == 'y' || ch == 'Y')

I printy (" Enter I for creating linked list In "); printy (" Enter 2 you displaying linked list \h");

priny (" Enter 3 for Exit:"); printy ("In Enter your choice");

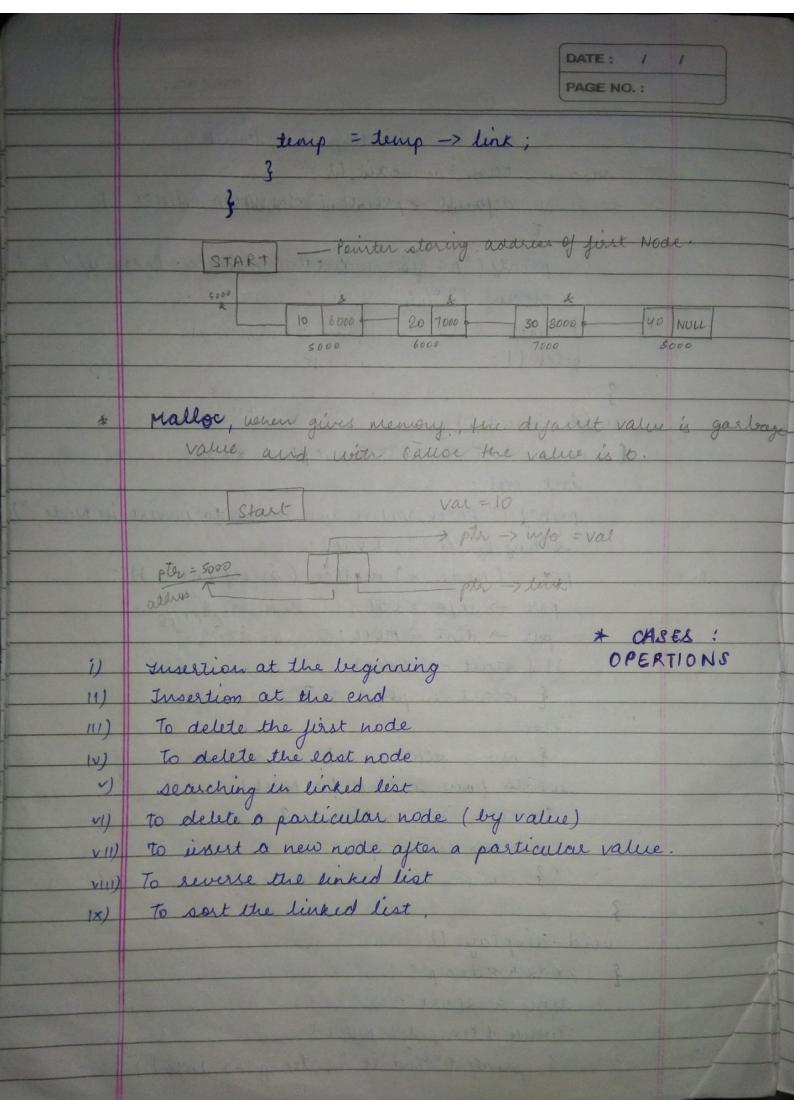
scary ("% d", & choice);

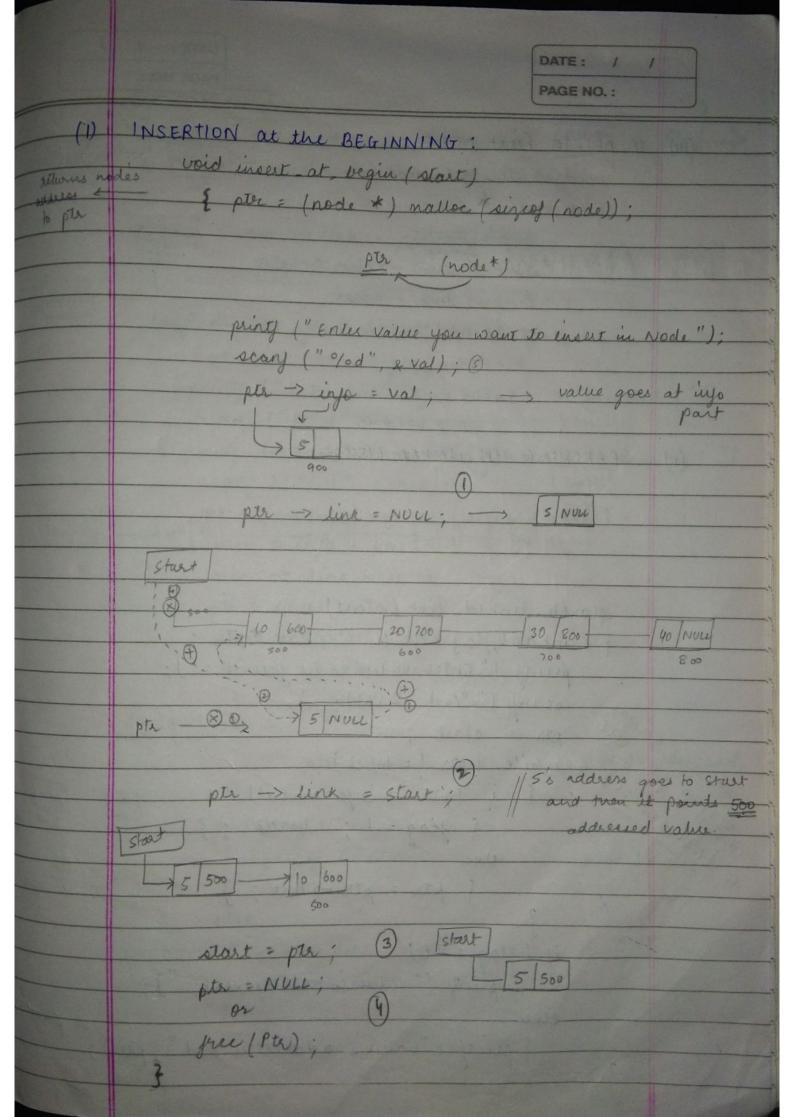
switch (choice)

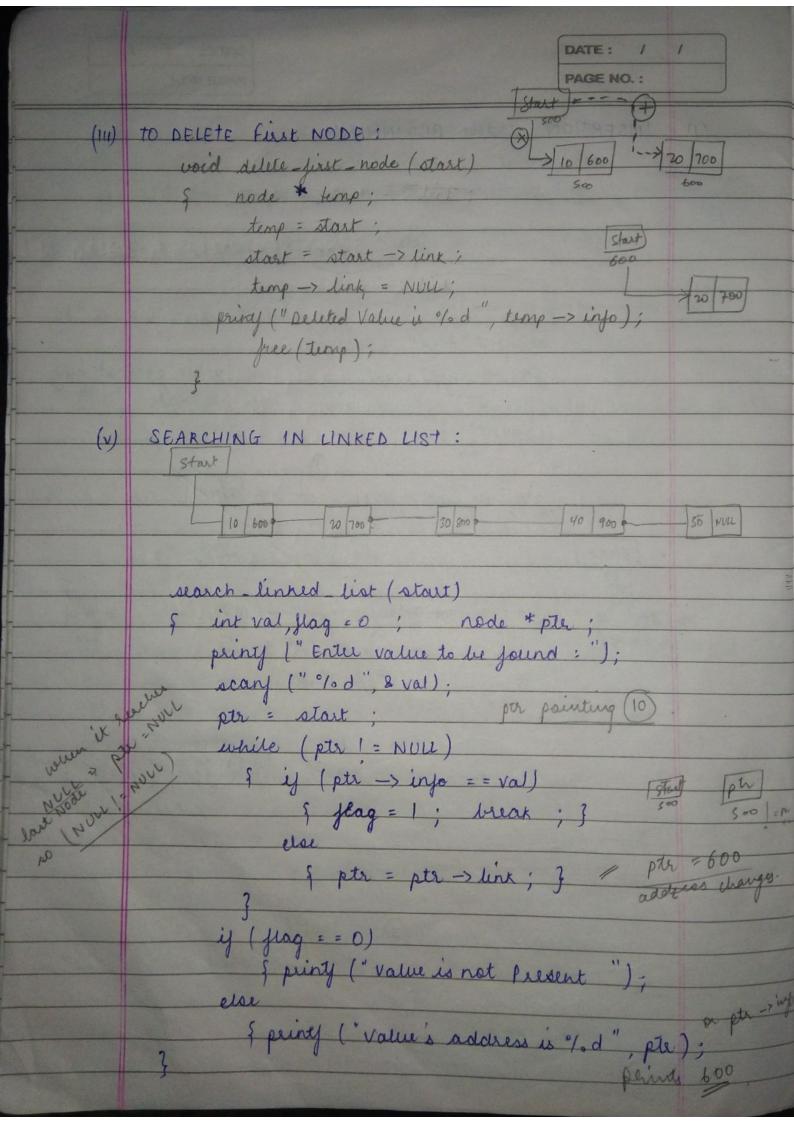
of case! insert Dy break;

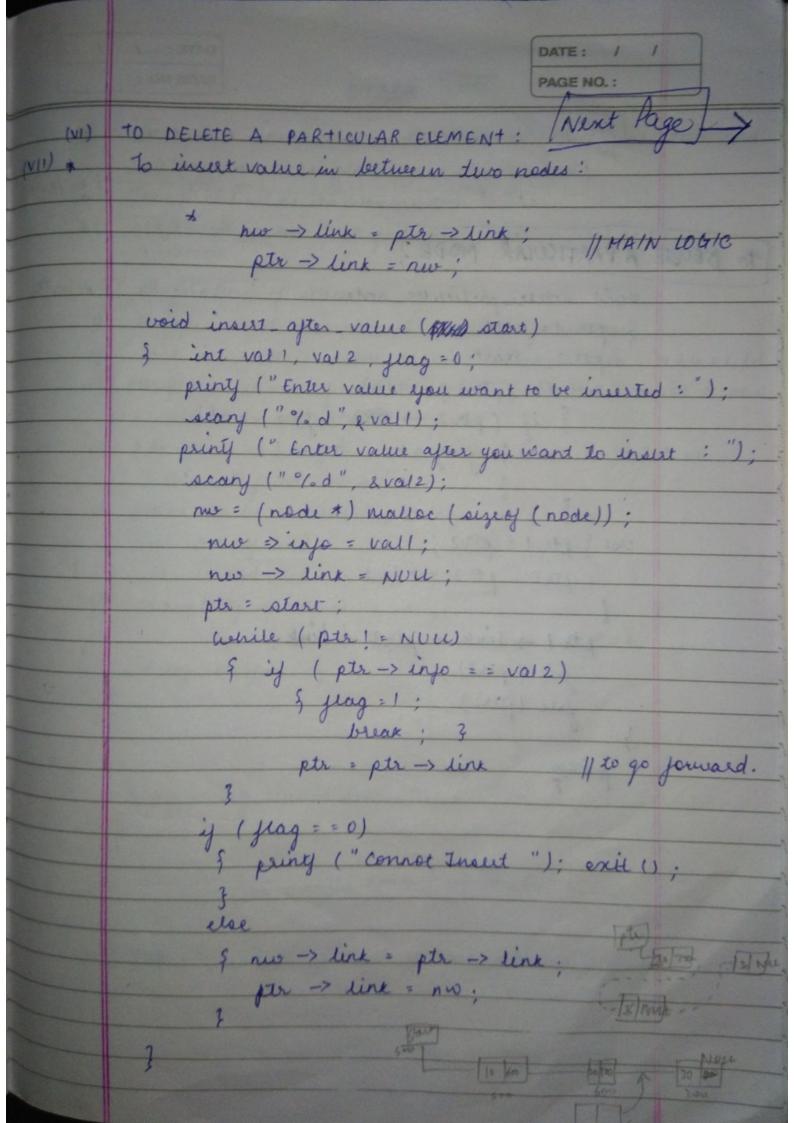
Ans:

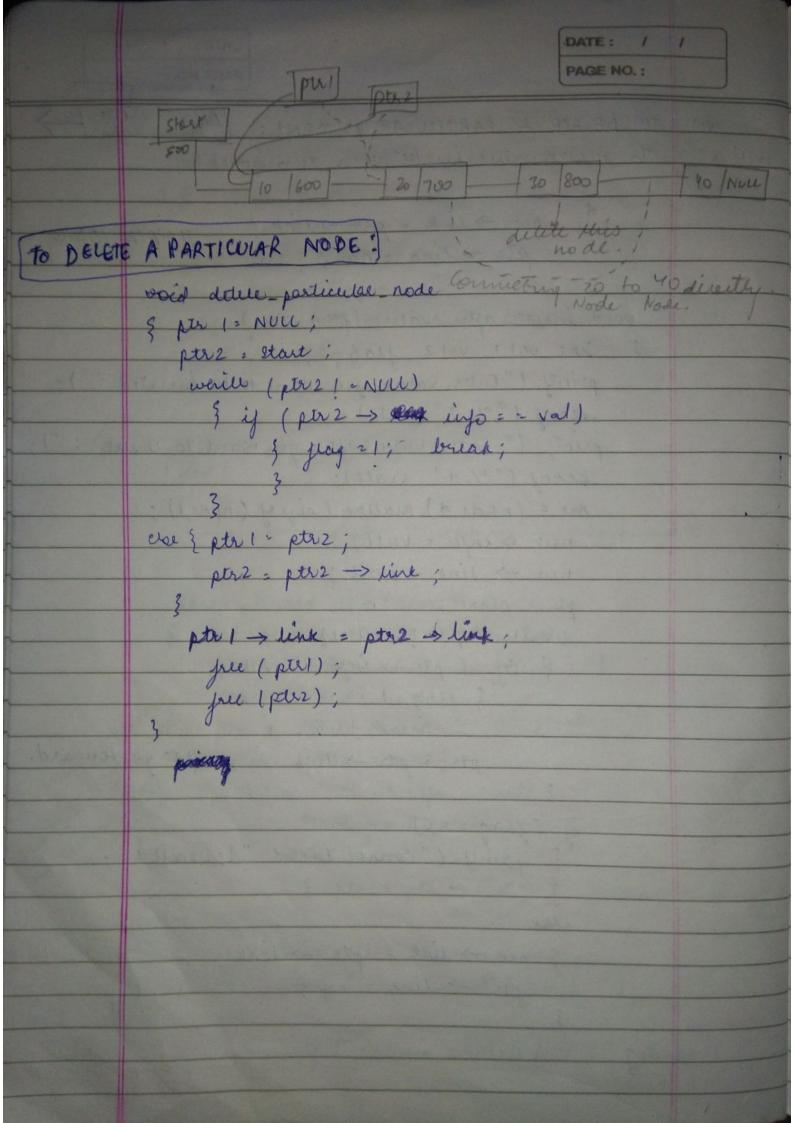
```
case 2: display (); break; case 3: exit ();
        default: printy ("INVALID CHOICE");
      printy (" Do you want to continue. Press y/Y:");
      scary (" o/c", ech);
    getch ();
                  start = First Node's Address
 void insect ()
{ node * start NULL, * pts, * nw;
   int val:
    printy (" Enter Value you want to insert in Node:");
   scary (" % d", Lval);
    pte = (node *) nealloc (size of (node));
   - ptr -> injo = val;
   - pta -> link = NULL;
  if (start = = NULL)
     { start = ptr; 3
      { nu = start ; }
     while ( now -> link ! = NULL)
     3 nw = nw -> link; 3
     nw -> link = pls;
void (display 1)
& node * temp;
    timp = start;
    white (temp 1 = NUCL)
     & printy ("% od It", temp -> injo);
```







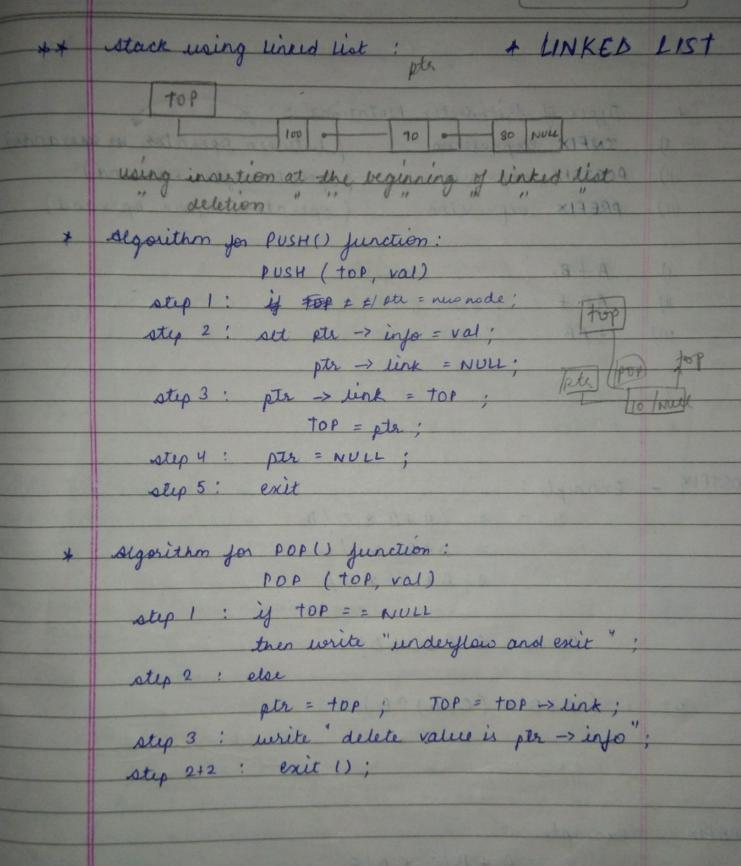




*	stack is a linear data structure in which insertion and
	deletion can take place on a single end
*	This end will be known as top. TOP.
*	stack works on LIFO principle (last in first out)
-	Applications of stack:
	stack is used to implement recursive junctions.
11)	stack is used to solve arithmetic expression, a+v*c/d
·w)	PUSH () > it is a junction which is used to insert a new
	element in the stack.
14)	POP () -> it is a function which is used to delete a
	element from the stack.
Ŋ	stack can be created by using:
	a) array and
	v) linked list
VI)	example of stack is:
	· by using Array [2] 30 ( )
	· by using Array [2] 30
	manufacture of the second of t
	, a ,
	· by using linked list
	TOP
	1 30 0 1 20 1 10 NULL
	30 10 1000
*	top contains the position of last inserted element in stack.
The second second	

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**	stack by using Array: * ARRAY
	10P = -1 A +10
	[3]   A   OF = = N-1
	then the stack is just
	[1] 120 [3] TOP=1  TOP=2 OVERFLOW = Jule
	[0] 10 top'= 9 UNDERFLOW = empty
	Contidence where the include the include of the second of
	- top increases in Person () TOP = 2
	- Top decreases in Pop ()
*	Algorithm of PUSH() function:
	Algorithm of PUSH() function: PUSH (stack, val, n) stack
	at all too
	step 1: if $toP = = n-1$
	then write "overflow and exit"
	step 2: else
	set top = top+1;
	stack [top] = val;
	step 3: exit();
¥	Algorithm of POP () junction:
	POP (stack, n, val)
	step 1: if top = = -1
	the secretary was dealers to the
	then write "underflow and exit";
	step 2: else
	set val = stack [top];
	TOP = TOP -1;
water se	step 3: urité "delete value is val";
	step 4: exit();
*	displaying STACK:
	for (i=top; i>=0; i)
	3 printy ("Yod", stack[i]); }



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7+1	LA LEBER LOING VALLE WELL WELL TO A LINKED!
+	of the state of th
一丁り	pour operations
1 1)	POSTFIX expression (operator after operand)
(m)	PREFIX expression (operator before operand)
L ,)	A+B Between operands
_ n)	
(11)	
	(FAB before operands
*	INFIX to POSTFIX :
*	POSTFIX evaluation et = 90t
POSTFIX -	- Example:
	INFIX => A+B * C/D
	POSTFIX 28 A+BC * /D  3 A+BC * D/
	3 A + BC * D /
	A A BC * D / considered as a combined
	FINAL & ABC + D/+ Operand.
	2012
0:	(A+B + (C/D) 1 E)
	= (A+B * CD / NE) = (A+10) * (D) = N)
	= (A+BCD/E**) NABCD/E**+
PREFIX _	Example:
	A + B/C + D/E
	* A+ /BC + DIE = A + * /BCD/E

3 A + / \* / BCDE 3 + A / \* / BCDE