Name -	Description of the State Organisation wains C
Rollan-	2001162
Counce	2001161
Sec-	D MCA
Sub	Data Structure & File Organisation Using C
oub -	Sata Structure a the arguments
Dr. 7	A stack is an abstract bata type (ADT) commonly used in most perogramming
F1118 Z	H Stack 15 an abstruct back type Chois
	languages. It is named stack as it behaves
	Janquages. It is named stack has to be have
	Like a real world stack, for eg ->
	a deck of courds or a pile of plates etc. A real would stack allows operations at
	me end moder This locations makes it
The second secon	LIFO data structure. LIFO stands Jan Last
nis-majojanamikaningi sayanin-unisan-in-e-in-	in-first Out. In stack terminology, insertion operation is called POP operation.
	operation is called <u>FUSH</u> operation and removal
	operation is called POP operation.
Cross	
Ą	Porogoram.
	# include <stdio.h></stdio.h>
	# include < (onio.h)
	Stouct Node
	5 Pnt datas
	struct Node *nent;
	*top = NULL
	Void auch (int).
	Void push Cint); Void pop ();
	voia pop ()

þ

void display (); { Int choice, values printf Ca In Implementation Stack Ving LL In" while (1) printf ("1. Puns Inz. Pop In3. Display In 4- Exit In) pount ("In Enter your choice:"); scan ("1.d", & choice); Switch (choice) case I: printf ("In Enter the value to insert:"); Scanf (" dod!) Evalue); push (value): break; Case 2: pop (); Case 3: Bidisplay (); boreak; Case 4: enit (o); default: printf ("In Invalid choice In") Void push (int value) ¿ stouct Node * new Node; new Node = (Struct Node Dmalloc (STZe of (Struct Node) new Mode -> data = Value; if (top == NULL) newNode - next = NULL: else

newNode -> next = top; top = new Node) printf ("Node is Inscrited In In"); roid pop () if (top== NULL) point f ("In Empty StackIn") Struct Node * temp = tops print ("In Popped Element: "1.d", temp->data); print+ ("In") top = temp -> nent; Joice (temp); Void display () if Ctop=> NULL) printly ("In Empty Stack In"); 'clse printf (The stack is In'); Struct Node * temp = top; while (temp -> nent != NULL) { pointf '(".1.d -->", temp -> data); temp = temp > next; printf ("old > NULLInIn", temp > data);