Stack using import Java. Util. Scanned; new-worl class stack int data; public Node next; Nodelint close 5.0.D this data - data; This next=null; Noble top-mul; public void push (Scanner Sc) S.o. D(" Enter a data); int data=scinextInt(); Mode new Mode= new Mode if (top == null) whil top=new_node;

new-wode.next=top; top=new-wode; public void popl) if (top=null) s.o.p ("Stack is fall"); else ned SC to p = top. next; public void Display() N odelda Node tem=top; while tem != mull S.o.p (tem. data) tem=tem-next; (?

public static void maintstring and s. clisp Scanner Sc= new Scanner (system in) Stack S= new Stack (); 5.0. P/ F1 int Di S. O. D(" 5.0.p (" press 1 to push"); 2 wh 5.0.p1 "preds 2 to pop"); 5.0. p(" press 3 to display"): S.o. pl" Enter Your choise"); d= sc. next Int (); switch(d) Cage 1: S. push(sc); break; ? Case 2: S. pop(); break; { Case 3.

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	break;
-	3
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·in);	
15	o only
Marine Ma	Menu");
	s.o.p("Enter any key to Exit");
	d=Sc.nextInt();
Contraction of the Contraction o	}while(J==0);
the same share the	S.O.P ("Exit Sucessfully");
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Stack A stack can be define as confained in which insertion and deletion can be done from the one end know as the top of the Stack. Dush 3-> Push Dush 1> standard stack operation. push(): When we insert an element in a Stack then the operation is know as a push of the stack is full then the overflow Condition occurs. Pop(); When we delete an element from the stack, the operation Is know as a pop. 4f the

Stack is empty means that no element exists in the stack this a stack & Hwe state is know as undestilow element in Stode. is sull . I xisEmpty(). It determine the cordition Stack is empty or notpop or xisfull); " " Full & Before in a st or not. * peeku: It returns the element weather the count(): 1 returns the total number of H we element o of elements available in a start. changes: 4 changes the element Empty W at the given position. displayer: It prints all the elements available in the stack.

push operation a stack is full. & If we try to insert the element in a stack, and the stuck is full then the overflow condition occure. pop operation. & Before deleting an dement 2 Jement in a stack we check weather the stack is Empty. stal number of the try to delete the a Stack. element of the Stuck when it is Empty under flow condition occurre. lement Two condition of Elemente the Le Stack.

isempty Wing Allay Stack operation Sodo ade if(TOP == Max=5else Stack[Max] return int top=-1 is Full () if (top = = Max-1) octurn Frue else return false Dush (Data) if (! is Full()) TOP=TOP+1
Stack[Top]=Dotal else ("overflow")

peration	
	is empty()
2	3 (1700 == -1)
	$ \frac{1}{\text{if}(\text{ToP} = = -1)} $ return true
and the second s	return true
	else
	seturn False
	3
	202()
	P'S
	int Data
	1611:00 011
	if (! is Empty)
	3
	Data = stack[Top]
	Top=Top-1
	3
	else
	"under Flow" 3