create a struct in a take user input for USN, name, phone number # include <sldio.h> # include < shing - h> struct student { add()

char name[;[0]; char usn (10); int ph; Void Main L'prints ("enter your name");
Scant ("/.s", fst. name);
add()', Paint (benter you usn"); Scant (by.s", & SI-USN); Pount (" enter your phonenumer"). Scanf (", d", & S1. ph); WHAT BUREN TO BE point ("in name is yeas", siname). print ("in usn is y. As", SI. USN); print [ " in ph is y. d", si. ph);

		110124
	push	
1.	# include <stdio.h>; first include header statement.</stdio.h>	
۵.	It define HAX 3: define the constant MAX 3.	
3.	initialize your variables and define t	heir type.
	Ints [10], Top = -1, i, item, ch;	
4.	défine function	
	void push () } +	
5.	puint or display element to be displayed	if (top=max-1)
6.	Scanb or take user in put.	{ D [ "a] a
7.	incrementing the top	P ( "stack overflow)
	too - too + 1:	netur n
8.	Allocating the value of the scanned it	em of (a)
	into the top	
	s[top] = item;	s) ( )
		top = top+1;
	pop	SCtop]=itep;
1.	define function	}
	Void pop () { }	
۵.	checking which item is on top of the 8	lack
	item = 8 [top];	
3.	decopositive rementing the top value	
	derepressive enementing the top value top = top-1;	if (top = = -1)
4.	returning the poped element.	return (4);
	aturn (item);	item = SCtop]
	,	top = top-1;
		neturn Citem?
	9	
		To All

```
check if stack is an overflow
  void overflow () { define the function }.
2. checking if (top = max-1) checks if index = max idex q
  print or display (Stack is overflow)
    Heturn
    check if stack is an underflow
1. Void underflow U & define the function 3
   checkip if stack is empty top == -1
3. print or display (stack is underflow).
   auturn
     Display
    void display () & define the function }
     printer display ( stack contents )
   for (i=top; i>=0; i--) print all extrities 'in stack-
puint ("y.n\n", s [i]); prints all the entities
4.
     of the stack one below the other
5
6
                                              if (top==-1) (
                                            p ( Stack is empty)
            Puch (ifu)
           < i ( top == MAX-1)
                                             Jeturn
                  Stack (HT. ()= itim.
                                              pl (Stack content)
                                         07 (1=+0p,1>=0, i--)
                                           Pb ("rdn", sci)
```

```
# include < stdip. n>
# include (con io. h>
# include < stdlib. b
int stack [10] , top = -1, i, item;
It define max 93
 Void push () {
    ib (top == max - 1) {
       3 print ("stack overflow (n");
     Olse &
      top++;
      paint ("enter element to push!");
      Scanf ( Y.d ", & item);
      Stack[top] = item;
 int pop () {
     if (top ==-1) {
        points (" Stack underflow In");
        queturn -1:
      item = stack [top];
      top = top-1;
     Leturon (item );
```

```
z recent (" stack if empty in);
 else E
      period (" the stack is: \nu);
      for ( i = top; i>-1; top i--) {
       puint ("x.d\n", stack [i]);
Void main () f
while (1) }
   inter user Input;
     painf ["enten in 1 to push, Ing to pop, in 3 to
          display, and In4 to exit In");
     Scanf ("y.d", fusn Input);
     Switch (user input) {
      Cases: push (?;
         break:
       case 2: item = pop();
          if (item = -1) {
           perint ["the popped element is y.d (n", item)
         break:
       case 3: displayer;
           break;
       Case 4: exit (0);
```

bereak;

Void display () {

if (top==-1) {

	Ow put,
	ow pu ,
	Enter
	1 to push,
	3 to display, and
	4 to exit
	Enter Element to push: 11
	Enter Eleman in position
	Enter
	1 to push 1
	a to pop,
	3 to display, and
1	4 to exit.
	Enter Element to push: 22.
	Enter
	1 to push,
	a to pop,
	3 to display, and
	4 to exit
and the same of	Mrs. 21 Horamale free profeshible day
	Enter Element to push: 33
	D TO THE RESERVE OF THE PARTY O
Å	是一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个一个

Enter 1 to push, 2 to pop, 3 to display, and 4 to exit the popped element is 11 Enter 1 to push 1 2 to pop, 3 to display, and 4 to exit Stack underflow.