



```
Start here X
           .c X *Untitled2 X 33.c X
    50
            void pop()
    51
    52
                 if(top==-1)
    53
                 {
    54
                     printf("\nStack is empty!!\n");
    55
                 ì
    56
                else
    57
    58
                     printf("\nDeleted element is %d", stack[top]);
    59
                     top=top-1;
    60
                 }
    61
    62
    63
            void display()
          - {
    64
    65
                int i;
    66
    67
                if (top==-1)
    68
    69
                     printf("\nStack is empty!!\n");
    70
    71
                else
    72
    73
                     printf("\nStack is...\n");
    74
                     for (i=top; i>=0; --i)
    75
                         printf("%d\n", stack[i]);
    76
    77
    78
```

\*\*\* Stack Menu \*\*\*

1.Push 2.Pop

3.Display

Enter your choice(1-3):1

Enter element to push:20

\*\*\* Stack Menu \*\*\*

1.Push

2.Pop 3.Display

Enter your choice(1-3):1

Enter element to push:30

\*\*\* Stack Menu \*\*\*

1.Push

2.Pop 3.Display

Enter your choice(1-3):1

Enter element to push:10

\*\*\* Stack Menu \*\*\*

1.Push

2.Pop 3.Display

Enter your choice(1-3):1

Stack is full!!

\*\*\* Stack Menu \*\*\*

1.Push

2.Pop

3.Display

Enter your choice(1-3):3

Stack is... 10

30 20

\*\*\* Stack Menu \*\*\*

1.Push 2.Pop 3.Display

3.Display

3.Display

Enter your choice(1-3):2 Deleted element is 10 \*\*\* Stack Menu \*\*\*

1.Push 2.Pop

Enter your choice(1-3):2 Deleted element is 30

\*\*\* Stack Menu \*\*\* 1.Push 2.Pop

Enter your choice(1-3):2

Deleted element is 20 \*\*\* Stack Menu \*\*\* 1.Push 2.Pop

3.Display

Enter your choice(1-3):2

Stack is empty!! \*\*\* Stack Menu \*\*\*

1.Push

2.Pop 3.Display

```
*** Stack Menu ***
```

- 1.Push 2.Pop 3.Display

## Enter your choice(1-3):2

Deleted element is 20 \*\*\* Stack Menu \*\*\*

- 1.Push 2.Pop
- 3.Display

## Enter your choice(1-3):2

Stack is empty!!

\*\*\* Stack Menu \*\*\*

- 1.Push
- 2.Pop
- 3.Display

## Enter your choice(1-3):5

Wrong Choice!!

\*\*\* Stack Menu \*\*\*

- 1.Push
- 2.Pop
- 3.Display

Enter your choice(1-3):

	PAGE NO.
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1.	Write a program to standate the working of a stack wing an armay with the following:  a) push
	b) pop c) display for stock over flow- print: a appropriate russag
	Code:
	#include < stdio. h>
	# include < st dlib. h >
	# define MAX 3
	int stack [MAX];
	int top = -1;
	Yord push ();
	pop (); void display ();
-	main ()
	in A ch.
	hhile (1)
	3
	printy (" ** * Stack Menu * * * ");
	printy (" 1. push \"");
	print; (112. pop \n 11);
	prints ("3. display (n");
	printy ("3. display (n");  printy ("Enter your choir from (1-3): ");  Scary ("1.d", & ch);
	Scary ( 17 d , & ch);
	Switch (ch)
	{
	(asel: puch ();
	break;
	Cose 2: pop ();

Case 3: display ();

break;

default: print ("Wrong Choice! \n"); ( Void push () int val; if (10p = = Max - 1);printy ("Stack Overflow!");

printy ("Enter element to push:

Sany (1/.d, & val);

top = top +1; Stack [top] = Val Void pop () if (top == -1)

if prints (" \nistack is Empty!"); else & print ("in deleted element is /-d",
stack [top]); top = top -1; 43 Void display ( ) int i;

if (top = = -1)

? print (" \n stack is Empty!!").

PAGE NO.
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& printy (" \n stack is \n"):
for (i= top: i >=0; i)
{ printy (" \n stack is\"); for (i=top; i >=0; i) printy (" / d \", Stack (i));
D, ( )
j
5
 Output:
** * Stack Menu ***
 1. push
 2. 100
 3. display
 Eester your choice from (1-3):1
 Eester your choice from (1-3):1 enter element to push: 20
 * * * Stack Neme * * *
 1. preh
 2. pop
 3. display
Finter your choice from (1-3):1  enter climent to push: 30  * * * Stack Menu * *
enter climent to push: 30
 * * * Stack Menu ***
 1. push
 2 · POP
 3 display
 Enter your choice from (1-3):1  enter clement to push:10
 enter clement to puth: 10
* * * Stack Monu * * *
 1. puch
 2. POP
 3. display  Enter your choice from (1-3): ]  Stock Over low!
Enter your Moice from (1-3):1
 Stock Over low!

	PAGE NO.  DATE / /
	* * * Stack mem * * *
	1 maphish at it is made in it is
	2 pop
	3. display
	Enter your choice from (1-3):3
	Enter your choice from (1-3):3
,	20
	30
	Finding & Stding > 01
	* * * Stack Menu * * *
	1. preh 5 3 3 12
	2. 100 [38E] not in
	3. displaye
	Enter your choice from (1-3):2
	deleted Element, 18:20.
	( ) duic ve disi
	in inger data
	in inge, data;
	parti " stack to persulation " manager".
	Trible Towns of the Company of the C
	part 1 is part 1000
	- Charles Street
•	( Vilations ) was have they that in the
	in the state of th