

```

#include<stdio.h>
#include<conio.h>
# define SIZE 7
void push(int a);
void pop();
void display();
int stack[SIZE], top=-1;
void main()
{
    int x,n;
    while(1)
    {
        printf("\nmenu .....");
        printf("\n 1.push\n 2.pop\n 3.display\n 4.exit");
        printf("\nenter your choice:");
        scanf("%d",&n);
        if(n==1)
        {
            printf("\nenter the element");
            scanf("%d",&x);
            push(x);

        }
        else if(n==2)
        {
            pop();
        }
        else if (n==3)
        {
            display();
        }
        else if(n==4)
        {
            printf("\nexiting..");
            break;
        }
        else
            printf("invalid entry..., please try again");
    }
}

```

```

}
void push( int m)
{
    if(top==SIZE-1)
        printf("stack is full,. you cannot add an element");
    else
    {
        stack[++top]=m;
        printf("inserted successfully");
    }
}
void pop()
{
    if(top== -1)
        printf("stack is empty. you cannot insert an element");
    else
    {
        int c;
        c=stack[top--];
        printf("deleted elemnt is %d",c);
    }
}
void display()
{
    if(top== -1)
        printf("stack underflow");
    else{
        int i;
        printf("stack elements are: ");
        for(i=top; i>=0; i--)
            printf("%d ",stack[i]);
    }
}

```

```
menu .....
 1.push
 2.pop
 3.display
 4.exit
enter your choice:1

enter the element6
inserted successfully
menu .....
 1.push
 2.pop
 3.display
 4.exit
enter your choice:1

enter the element4
inserted successfully
menu .....
 1.push
 2.pop
 3.display
 4.exit
enter your choice:2
deleted elemnt is 4
menu .....
 1.push
 2.pop
 3.display
 4.exit
enter your choice:3
stack elements are: 6
menu .....
 1.push
 2.pop
 3.display
 4.exit
enter your choice:2
deleted elemnt is 6
menu .....
 1.push
 2.pop
 3.display
 4.exit
enter your choice:3
stack underflow
```

menu

- 1.push
- 2.pop
- 3.display
- 4.exit

enter your choice:3

stack elements are: 6

menu

- 1.push
- 2.pop
- 3.display
- 4.exit

enter your choice:2

deleted elemnt is 6

menu

- 1.push
- 2.pop
- 3.display
- 4.exit

enter your choice:3

stack underflow

menu

- 1.push
- 2.pop
- 3.display
- 4.exit

enter your choice:4

exiting..

Process returned 10 (0xA) execution time : 20.261 s

Press any key to continue.

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