

**/\*stack push pop display\*/**

**#include<stdio.h>**

**#include<stdlib.h>**

**#include<process.h>**

**#define MAX 10**

**int top=-1,stack[MAX];**

**void push();**

**void pop();**

**void display();**

**int main()**

**{**

**int ch;**

**while(1)**

**{**

**printf("press 1 for push\n");**

**printf("press 2 for pop\n");**

**printf("press 3 for display\n");**

**printf("press 4 for exit\n");**

**printf("enter your choice\n");**

**scanf("%d",&ch);**

**switch(ch)**

**{**

**case 1:push();**

**break;**

**case 2:pop();**

**break;**

**case 3:display();**

**break;**

**case 4:exit(0);**

**default:**

**printf("invalid choice\n");**

```

        }
    }
}

void push()
{
    int value;
    if(top==MAX-1)
    {
        printf("stack is full\n");
    }
    else
    {
        printf("enter the value\n");
        scanf("%d",&value);
        top++;
        stack[top]=value;
    }
}

void pop()
{
    int x;
    if(top== -1)
    {
        printf("stack is empty\n");
    }
    else
    {
        x=stack[top];
        printf("deleted value is %d",x);
        top--;
    }
}

```

```
}  
void display()  
{  
    if(top==-1)  
    {  
        printf("stack is empty\n");  
    }  
    else  
    {  
        for(int i=top;i>=0;i--)  
        {  
            printf("%d\n",stack[i]);  
        }  
    }  
}
```



```
C:\Users\HP\OneDrive\Desktop\array union\stack push pop display.exe
3
20
10
press 1 for push
press 2 for pop
press 3 for display
press 4 for exit
enter your choice
2
deleted value is 20
press 1 for push
press 2 for pop
press 3 for display
press 4 for exit
enter your choice
3
10
press 1 for push
press 2 for pop
press 3 for display
press 4 for exit
enter your choice
4
-----
Process exited after 50.09 seconds with return value 0
Press any key to continue . . .
```