**Array implimentation of stack**

**#include<stdio.h>**

**int main()**

**{**

**int i,n,pos,ele,c,position,arr[100];**

**printf("Enter array size:");**

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

**printf("Enter elements:");**

**for(i = 0; i < n; i++)**

**{**

**scanf("%d",&arr[i]);**

**}**

**printf("Enter the position to be inserted:");**

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

**printf("Enter the element to be inserted:");**

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

**if(pos > n)**

**printf("Invalid Input");**

**else**

**for(i=n-1;i>=pos-1;i--)**

**arr[i+1] = arr[i];**

**arr[pos-1] = ele;**

**printf("Array after insertion is:\n");**

**for (i = 0; i <= n; i++)**

**printf("%d\n", arr[i]);**

**printf("Enter the position to be deleted:");**

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

**if (position > n+1)**

**printf("\nDeletion not possible.\n");**

**else**

**for(c=position-1;c<n-1;c++)**

**arr[c] = arr[c+1];**

**printf("\nArray after deletion :\n");**

**for(c=0;c<n-1;c++)**

**printf("%d\n", arr[c]);**

**printf("\nEnter element :");**

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

**for(c = 0; c < n ; c++)**

**{**

**if(arr[c] == ele)**

**{**

**printf("\nElement found\n");**

**}**

**return 0;**

**}**

**}**

