PROGRAM 7:

ARRAY IMPLEMENTATION:

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| --- |
| #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;  } |

OUTPUT:

