7. program to implement Array operations such as Insert, Delete and Display:

#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;

}

