**Experiment 7**

**Write a C program to implement array operations such as Insert, Delete and Display.**

**Program**

#include<stdio.h>

int main(){

int arr[40],position,pos,i,size,value;

printf("Enter number of elements in array:");

scanf("%d",&size);

printf("Enter %d elements are:\n",size);

for(i=0;i<size;i++)

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

printf("Enter the position where you want to insert the element:");

scanf("%d",&pos);

printf("enter the value into that position:");

scanf("%d",&value);

for(i=size-1;i>=pos-1;i--)

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

arr[pos-1]= value;

printf("After inserting the value is\n");

for(i=0;i<=size;i++)

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

printf("Enter the location where you wish to delete element\n");

scanf("%d", &position);

if (position >= size+1)

printf("Deletion not possible.\n");

else

{

for (i = position - 1; i < size - 1; i++)

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

printf("After deleting the value:\n");

for (i = 0; i < size - 1; i++)

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

}

return 0;

}

Output:

