PROGRAM:

#include <stdio.h>

int arr[100], n = 0;

void display() {

for(int i = 0; i < n; i++) printf("%d ", arr[i]);

printf("\n");

}

void insert(int pos, int val) {

for(int i = n; i > pos; i--) arr[i] = arr[i-1];

arr[pos] = val; n++;

}

void deleteAt(int pos) {

for(int i = pos; i < n-1; i++) arr[i] = arr[i+1];

n--;

}

int main() {

int ch, val, pos;

do {

printf("\n1.Insert 2.Delete 3.Display 4.Exit\nChoice: ");

scanf("%d", &ch);

if(ch == 1) {

printf("Pos & Val: "); scanf("%d%d", &pos, &val); insert(pos, val);

} else if(ch == 2) {

printf("Pos: "); scanf("%d", &pos); deleteAt(pos);

} else if(ch == 3) display();

} while(ch != 4);

return 0;

}

OUTPUT:

