### **Array Operations (Insert, Delete, Display)**

#include <stdio.h>

int main() {

int a[100], n, i, pos, val, choice;

printf("Enter size of array: ");

scanf("%d", &n);

printf("Enter elements:\n");

for (i = 0; i < n; i++) scanf("%d", &a[i]);

do {

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

scanf("%d", &choice);

switch (choice) {

case 1:

printf("Enter position & value: ");

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

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

a[pos] = val; n++;

break;

case 2:

printf("Enter position: ");

scanf("%d", &pos);

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

n--;

break;

case 3:

printf("Array: ");

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

break;

}

} while (choice != 4);

return 0;

}

