Exp 7

7. Write a C program to implement Array operations such as Insert, Delete and

Display

#include <stdio.h>

int main() {

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

printf("Enter number of elements: ");

scanf("%d", &n);

printf("Enter elements: ");

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

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

while (1) {

printf("\n1.Insert\n2.Delete\n3.Display\n4.Exit\n");

printf("Enter choice: ");

scanf("%d", &choice);

switch (choice) {

case 1:

printf("Enter position and value: ");

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

if (pos < 0 || pos > n)

printf("Invalid position!\n");

else {

for (i = n; i > pos; i--)

arr[i] = arr[i - 1];

arr[pos] = val;

n++;

}

break;

case 2:

printf("Enter position to delete: ");

scanf("%d", &pos);

if (pos < 0 || pos >= n)

printf("Invalid position!\n");

else {

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

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

n--;

}

break;

case 3:

printf("Array: ");

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

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

printf("\n");

break;

case 4:

return 0;

default:

printf("Invalid choice!\n");

}

}

}

A screenshot of a computer

AI-generated content may be incorrect.