1]

#include<stdio.h>

int arr[100],n = 0;

void create(){

printf("No. of elements: ");

scanf("%d",&n);

printf("Enter elements:\n");

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

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

}

void display(){

printf("Array: ");

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

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

printf("\n");

}

void insert(){

int position,value;

printf("Enter position: ",n);

scanf("%d",&position);

printf("Enter value to insert: ");

scanf("%d",&value);

for(int i=n;i>position;i--)

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

arr[position]=value;

n++;

}

void delete\_element(){

int position;

printf("Enter position to delete: ",n - 1);

scanf("%d",&position);

for(int i=position;i<n - 1;i++)

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

n--;

}

void linear\_search(){

int tosearch,foundposition= 0;

printf("Enter number to search: ");

scanf("%d",&tosearch);

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

if(arr[i]==tosearch) {

printf("Found at position %d\n",i);

foundposition=1;

break;

}

}

if(!foundposition)

printf("Not found.\n");

}

int main(){

int choice;

while(1){

printf("\nMENU\n1.Create\n2.Display\n3.Insert\n4.Delete\n5.Linear Search\n6.Exit\nChoice: ");

scanf("%d", &choice);

switch(choice){

case 1:create(); break;

case 2:display(); break;

case 3:insert(); break;

case 4:delete\_element(); break;

case 5:linear\_search(); break;

case 6:return 0;

default:printf("Invalid choice\n");

}

}

return 0;}

