LAB TASK -2

1. Write a program in C to store elements in an array and print them.

ANS:-

#include <stdio.h>

int main() {

int myArray[6];

printf("Enter 6 elements:\n");

for (int i = 0; i < 6; i++) {

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

}

printf("Elements in the array are: ");

for (int i = 0; i < 6; i++) {

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

}

return 0;

}

2) Write a program in C to read n number of values in an array and display

them in reverse order.

ANS:-

#include <stdio.h>

int main() {

int n;

printf("Enter the number of values: ");

scanf("%d", &n);

int myArray[n];

printf("Enter %d values:\n", n);

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

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

}

printf("Values in reverse order are: ");

for (int i = n - 1; i >= 0; i--) {

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

}

return 0;

}

3)Write a program in C to find the sum of all elements of the array.

ANS:-

#include <stdio.h>

int main() {

int n, sum = 0;

printf("Enter the number of elements: ");

scanf("%d", &n);

int myArray[n];

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

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

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

}

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

sum += myArray[i];

}

printf("Sum of elements: %d\n", sum);

return 0;

}

4) Write a program in C to count the total number of duplicate elements in

an array.

ANS:-

#include <stdio.h>

int main() {

int n, count = 0;

printf("Enter the number of elements: ");

scanf("%d", &n);

int myArray[n];

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

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

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

}

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

for (int j = i + 1; j < n; j++) {

if (myArray[i] == myArray[j]) {

count++;

break;

}

}

}

printf("Total number of duplicate elements: %d\n", count);

return 0;

}

5) Write a program in C to print all unique elements in an array.

ANS:-

#include <stdio.h>

int main() {

int n;

printf("Enter the number of elements: ");

scanf("%d", &n);

int myArray[n];

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

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

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

}

printf("Unique elements in the array: ");

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

int isUnique = 1;

if (myArray[i] == myArray[j]) {

isUnique = 0;

break;

}

}

if (isUnique) {

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

}

}

return 0;

}

6) Write a program in C to insert an element into an array at a specified

position.

ANS:-

#include<stdio.h>

int main()

{

int a[50],i,n,num,p;

printf("enter the size of array:");

scanf("%d",&n);

printf("enter the elements of array:");

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

{

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

}

printf("enter the numbers to insert:");

scanf("%d",&num);

printf("enter the position :");

scanf("%d",&p);

for(i=n-1;i>=p-1;i--)

{

a[i+1]=a[i];

}

a[p-1]=num;

n++;

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

{

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

}

return 0;

}

7) Write a program in C to delete the element at the given index.

ANS:-

#include<stdio.h>

int main(){

int a[50],i,n,p;

printf("enter the size of array:");

scanf("%d",&n);

printf("enter the elements of array:");

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

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

printf("enter the position for deleting element:");

scanf("%d",&p);

for(i=p-1;i<n;i++){

a[i]=a[i+1];}

n--;

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

printf("%d",a[i]);}

return 0;}

THE END