**1.Write a program in C to store N numbers of elements in an array and print it.**

#include <stdio.h>

int main() {

int N, i;

printf("Enter no. of elements: ");

scanf("%d", &N);

int array[N];

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

for (i = .20; i < N; i++) {

printf("A[%d] = ", i);

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

printf("\nArray is:\n");

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

printf("A[%d] = %d\n", i, array[i]); }

return 0;}

**2. Write a program in C to find out the even values of an array.**

#include <stdio.h>

int main() {

int N, i;

printf("Enter no. of elements: ");

scanf("%d", &N);

int array[N];

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

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

printf("A[%d] = ", i);

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

printf("\nEven values in the array:\n");

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

if (array[i] % 2 == 0) {

printf("%d\n", array[i]);

}}

return 0;}

**3. Write a program in C to find out the values of the odd indexes of N numbers of elements of an array.**

#include <stdio.h>

int main() {

int N, i;

printf("Enter no. of elements: ");

scanf("%d", &N);

int array[N];

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

for (i = 1; i <= N; i++) {

printf("A[%d] = ", i);

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

printf("\nValues at odd indexes:\n");

for (i = 1; i <= N; i += 2) {

printf("%d\n", array[i]); }

return 0;}

**4. Write a program in C to find the sum of all elements of the array of N elements.**

#include <stdio.h>

int main() {

int N, i;

float sum = 0;

printf("Enter no. of elements: ");

scanf("%d", &N);

float array[N];

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

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

printf("A[%d] = ", i);

scanf("%f", &array[i]);

sum += array[i]; }

printf("\nSum of %d elements is %.2f\n", N, sum);

return 0;}

**5. Write a program in C to find the average of all elements of the array.**

#include <stdio.h>

int main() {

int N, i;

float sum = 0;

float average;

printf("Enter no. of elements: ");

scanf("%d", &N);

float array[N];

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

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

printf("A[%d] = ", i);

scanf("%f", &array[i]);

sum += array[i]; }

average = sum / N;

printf("\nAverage of %d elements is %.2f\n", N, average);

return 0;}

**6. Find out the intersection values of 2 arrays.**

#include <stdio.h>

int main() {

int N1, N2, i, j, k;

printf("Enter no. of elements of A: ");

scanf("%d", &N1);

int A[N1];

printf("Enter the elements of A:\n");

for (i = 0; i < N1; i++) {

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

printf("\nEnter no. of elements of B: ");

scanf("%d", &N2);

int B[N2];

printf("Enter the elements of B:\n");

for (i = 0; i < N2; i++) {

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

printf("\nIntersection: ");

for (i = 0; i < N1; i++) {

for (j = 0; j < N2; j++) {

if (A[i] == B[j]) {

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

break; } } }

printf("\n");

return 0;}