1.Write a program to accept n and store the elements into the array of size n.

#include <iostream>

using namespace std;

int main() {

    int n;

    // Accept size of array

    cout << "Enter the size of the array (n): ";

    cin >> n;

    // Declare array of size n

    int arr[n];

    // Accept elements into array

    cout << "Enter " << n << " elements:" << endl;

    for(int i = 0; i < n; i++) {

        cin >> arr[i];

    }

    // Display the array elements

    cout << "The array elements are: ";

    for(int i = 0; i < n; i++) {

        cout << arr[i] << " ";

    }

    cout << endl;

    return 0;

}

2.Find the Sum of all elements in the array

#include <iostream>

int main() {

    int arr[] = {1, 2, 3, 4, 5};

    int size = sizeof(arr) / sizeof(arr[0]); // Calculate the number of elements

    int sum = 0;

    for (int i = 0; i < size; ++i) {

        sum += arr[i];

    }

    std::cout << "Sum of array elements: " << sum << std::endl;

    return 0;

}

3.Find the Minimum value of all elements in the array

#include <iostream>

using namespace std;

int main() {

    int arr[] = {5, 3, 8, 2, 7};

    int n = sizeof(arr) / sizeof(arr[0]);

    int mini = arr[0]; // Declare and initialize 'mini'

    for (int i = 1; i < n; ++i) {

        if (arr[i] < mini) {

            mini = arr[i];

        }

    }

    cout << "Minimum value: " << mini << endl;

    return 0;

}

4. Find the Maximum value of all elements in the array

#include <iostream>

using namespace std;

int main() {

    int arr[] = {5, 3, 8, 2, 7, 11};

    int n = sizeof(arr) / sizeof(arr[0]);

    int maxVal = arr[0];

    for (int i = 1; i < n; ++i) {

        if (arr[i] > maxVal) {

            maxVal = arr[i];

        }

    }

    cout << "Maximum value: " << maxVal << endl;

    return 0;

}

5. Search the given element from the array

#include <iostream>

using namespace std;

int findElement(int arr[], int n, int key) {

    for (int i = 0; i < n; ++i) {

        if (arr[i] == key) return i;

    }

    return -1; // not found

}

int main() {

    int arr[] = {12, 34, 10, 6, 40};

    int n = sizeof(arr) / sizeof(arr[0]);

    int key = 40;

    int pos = findElement(arr, n, key);

    if (pos == -1)

        cout << "Element not found\n";

    else

        cout << "Element found at index: " << pos << endl;

    return 0;

}

6. Display the number of odd and even numbers from the array

#include <iostream>

using namespace std;

int main() {

    int arr[] = {1, 7, 8, 4, 5, 16, 8};

    int n = sizeof(arr) / sizeof(arr[0]);

    int even\_count = 0, odd\_count = 0;

    for (int i = 0; i < n; ++i) {

        if (arr[i] % 2 == 0)

            ++even\_count;

        else

            ++odd\_count;

    }

    cout << "Even count: " << even\_count << "\n";

    cout << "Odd count: "  << odd\_count << "\n";

    return 0;

}

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