17 JULY 2024

Q1. Write a program to display the array element.

#include <iostream>

int main() {

// Define the array

int my\_array[] = {10, 20, 30, 40, 50};

int array\_size = sizeof(my\_array) / sizeof(my\_array[0]);

// Display the array elements

std::cout << "The elements of the array are:" << std::endl;

for (int i = 0; i < array\_size; i++) {

std::cout << my\_array[i] << std::endl;

}

return 0;

}

Q2. write a progam to find the max element from the list.

#include <iostream>

#include <algorithm>

int main() {

// Define the array

int my\_array[] = {10, 20, 30, 40, 50};

int array\_size = sizeof(my\_array) / sizeof(my\_array[0]);

// Find the maximum element

int max\_element = \*std::max\_element(my\_array, my\_array + array\_size);

// Display the result

std::cout << "The maximum element in the array is: " << max\_element << std::endl;

return 0;

}

Q3. Count of 3 Multiples

#include <iostream>

int countMultiples(int arr[], int n) {

int count = 0;

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

if (arr[i] % 3 == 0) {

count++;

}

}

return count;

}

int main() {

int arr[] = {1, 2, 3, 4, 5, 6, 7, 8, 9, 10};

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

int count = countMultiples(arr, n);

std::cout << "Number of multiples of 3: " << count << std::endl;

return 0;

}

Q4.

#include <iostream>

int countMultiplesOfThree(int arr[], int size) {

int count = 0;

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

if (arr[i] % 3 == 0) {

count++;

}

}

return count;

}

int main() {

int size;

std::cout << "Enter the size of the array: ";

std::cin >> size;

int arr[size];

std::cout << "Enter the array elements:\n";

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

std::cin >> arr[i];

}

int multiplesCount = countMultiplesOfThree(arr, size);

std::cout << "The count of multiples of 3 in the array is: " << multiplesCount << std::endl;

return 0;

}



