Write a program to find the number of composite numbers in an array of elements

CODE:

import java.util.Scanner;

public class CompositeNumberCounter {

// Function to check if a number is composite

public static boolean isComposite(int num) {

if (num <= 1) {

return false;

}

for (int i = 2; i <= Math.sqrt(num); i++) {

if (num % i == 0) {

return true;

}

}

return false;

}

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

System.out.print("Enter the number of elements in the array: ");

int n = scanner.nextInt();

int[] arr = new int[n];

System.out.println("Enter the elements:");

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

arr[i] = scanner.nextInt();

}

scanner.close();

int compositeCount = 0;

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

if (isComposite(arr[i])) {

compositeCount++;

}

}

System.out.println("Number of composite numbers in the array: " + compositeCount);

}

}

OUTPUT:

C:\javap>javac CompositeNumberCounter.java

C:\javap>java CompositeNumberCounter

Enter the number of elements in the array: 10

Enter the elements:

6 3 0 5 9 6 6 7 4 2

Number of composite numbers in the array: 5

