**Name of Student: Raheel Kotwal**

**Roll Number: 45**

**Experiment Number: 11**

**Title: Check Array in ascending order**

**Theory:**  The following code uses a for loop to check if the array is in ascending order or not and simply prints accordingly. The length of the array is hardcoded to 5.

**Code:**

**#include <iostream>**

**using namespace std;**

**int main() {**

**const int size = 5;**

**int array[size];**

**cout << "Enter " << size << " integers for the array:" << endl;**

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

**cout << "Element " << i + 1 << ": ";**

**cin >> array[i];**

**}**

**bool isSorted = true;**

**for (int i = 0; i < size - 1; ++i) {**

**if (array[i] > array[i + 1]) {**

**isSorted = false;**

**break;**

**}**

**}**

**if (isSorted) {**

**cout << "The array is sorted in ascending order." << endl;**

**} else {**

**cout << "The array is not sorted in ascending order." << endl;**

**}**

**return 0;**

**}**

**Output:(screenshot):**

