Write a program that creates an integer array having 100 elements. Then, *randomly assign values (0—99)* to the arrays elements. After that the program should ask the user to enter a number and print *the total number of occurrences* (how many time the *number appeared*) in the array.

```cpp
#include <iostream>
using namespace std;
int main() {

    int array[100];
    int i,val,count,j,check[100],flag,k=0;
    for (i = 0; i < 100; i++) {
        array[i] = rand() % 10 ;
        cout << "arr[" << i << "]:" << array[i]<<endl;
    }
    for (i = 0; i < 100; i++) {
        count = 0;
        val = array[i];
        flag = 1;
        for (j = 0; j < 100; j++) {
            if (val == array[j]) {
                count++;
            }
        }
            for (j = 0; j < k; j++) {
                if (check[j] == val) {
                    flag = 0;
                }
        }
            if (flag == 1) {
                cout << "The Number\t" << val << "\tis
appeared\t" << count << "\ttimes." << endl;
                check[k] = val;
                k++;
            }
        }

    }
```