**Example Code with Issues:**

#include <iostream>

using namespace std;

int main() {

int arr[5] = {1, 2, 3, 4, 5};

int sum = 0;

// Out of bounds access

for (int i = 0; i <= 5; i++) {

sum += arr[i];

}

// Unused variable

int unusedVar = 10;

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

return 0;

}

**Cppcheck Output**:

[main.cpp:9]: (error) Array 'arr[5]' accessed at index 5, which is out of bounds.

[main.cpp:14]: (style) Variable 'unusedVar' is assigned a value that is never used.

**Refactored Code (After Fixing the Issues):**

#include <iostream>

using namespace std;

int main() {

int arr[5] = {1, 2, 3, 4, 5};

int sum = 0;

// Fixed the loop to avoid out-of-bounds access

for (int i = 0; i < 5; i++) {

sum += arr[i];

}

// Removed the unused variable

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

return 0;

}