```
#include <iostream>
#include <vector>
#include < numeric >
using namespace std;
// Objective: To find the sum of a given number of integers.
// Inputs: count (int) - The number of integers to read.
// Return value: The total sum of the numbers.
// Side Effects: Interacts with standard input/output streams.
int sum(int count) {
 // Approach: Prompts the user for a specified number of integers,
 //
       and then iteratively reads and sums them.
 int total = 0;
 cout << "Please enter" << count << " integers.\n";</pre>
 for (int i = 0; i < count; ++i) {
   int number;
   cout << "Enter number " << (i + 1) << ": ";
   cin >> number;
   total += number;
 }
 return total;
}
```

```
// Objective: To serve as the main driver for the program.
// Approach: Prompts the user for the number of items to sum,
       calls the 'sum' function, and displays the final result.
int main() {
  int n_items;
  cout << "Enter the number of integers you want to sum: ";</pre>
  cin >> n_items;
 // Call the sum function to get the total
  int result = sum(n_items);
 // Display the final result
  cout << "\nThe sum of the " << n_items << " numbers is: " << result << endl;</pre>
  return 0;
```

}