Sum of Natural Numbers using loop

```cpp
#include <iostream>
using namespace std;
int main() {
    int n, sum = 0;
    cout << "Enter a positive integer: ";
    cin >> n;
   for (int i = 1; i <= n; ++i) {
       sum += i;
    }
  cout << "Sum = " << sum;
    return 0;
}
```

C++ Program to Check Leap Year or Not

```cpp
#include <iostream>
using namespace std;
int main() {
  int year;
  cout << "Enter a year: ";
  cin >> year;
 // leap year if perfectly divisible by 400
 if (year % 400 == 0) {
   cout << year << " is a leap year.";
 }
 // not a leap year if divisible by 100
 // but not divisible by 400
 else if (year % 100 == 0) {
   cout << year << " is not a leap year.";
 }
 // leap year if not divisible by 100
 // but divisible by 4
 else if (year % 4 == 0) {
   cout << year << " is a leap year.";
 }
 // all other years are not leap years
 else {
   cout << year << " is not a leap year.";
 }
 return 0;
}
```