Main.cpp

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/*

  CECS 282 Sec 06 Week 5 Lab 2
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  Demo at 5:00PM

*/

#include "Can.h"
#include <iostream>
#include <string>
using namespace std;

int main() {

  Can c1 = Can("Peaches", 15);
  Can c2 = Can("Peas", 20);
  Can c3 = Can("Soup", 24);
  Can c4 = Can().mix(c1, c3); // c4 will have a mixture of c1 and c2
  Can().pour(c2, c1);        // pour c1 into c2. c1 will be empty
  Can().stretch(c3, 20);
  cout << "C1 - ";
  c1.display(); // empty: 0
  cout << "C2 - ";
  c2.display(); // Peas, Peaches: 35
  cout << "C3 - ";
```

```
    c3.display(); // Soup: 44
    cout << "C4 - ";
    c4.display(); // Peaches, Soup: 39

    return 0;
```

```
C1 - 0 ounce can of Empty
C2 - 35 ounce can of Peas and Peaches
C3 - 44 ounce can of Soup
C4 - 39 ounce can of Peaches and Soup
```

```
}
```

Can.h

```
#ifndef CAN_H
#define CAN_H
#include <iostream>
using namespace std;

class Can {

private:
  string name;
  int weight;

public:
  Can();
  Can(string name, int weight);
  string getName();
  int getWeight();
  void display();
  void pour(Can &, Can &);
  Can mix(Can, Can);
  void stretch(Can &, int);
};

#endif
```

Can.cpp

```
#include "Can.h"
#include <iostream>

Can::Can() {
  name = "Empty";
  weight = 0;
}

Can::Can(string name, int weight) {
  this->name = name;
  this->weight = weight;
}

string Can::getName() { return name; }

int Can::getWeight() { return weight; }

void Can::display() { std::cout << weight << " ounce can of " << name << endl; }

void Can::pour(Can &can_1, Can &can_2) {
  can_1 = Can(can_1.getName() + " and " + can_2.getName(),
            can_1.getWeight() + can_2.getWeight());
  can_2 = Can();
}

void Can::stretch(Can &c, int v) { c = Can(c.getName(), c.getWeight() + v); }

Can Can::mix(Can can_1, Can can_2) {
```

```
  Can new_can = Can(can_1.getName() + " and " + can_2.getName(),
                    can_1.getWeight() + can_2.getWeight());
  return new_can;
}
```