

# Intro to C++

## Session 7- One Sample C++ Program

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### Structures

#### Program # 1: Area

```
//Program to calculate the area of a room (Length * Width)
/* Kitchen measurements:
    Width = 10 feet 5.5 inches;
    Length = 12 feet 6.5 inches;
*/
#include <iostream>
using namespace std;

struct measurement {
    int feet;
    float inches;
};

struct room {
    measurement length;
    measurement width;
};

int main() {
    room kitchen;
    // Store length
    kitchen.length.feet = 12;
    kitchen.length.inches = 6.5;
    // Store width
    kitchen.width.feet = 10;
    kitchen.width.inches = 5.5;

    float totalLength = kitchen.length.feet + (kitchen.length.inches / 12);
    float totalWidth = kitchen.width.feet + (kitchen.width.inches / 12);
    float area = totalLength * totalWidth;

    cout << "The area of our kitchen room is " << area;
    return 0;
}
```