```
#include <iostream>
#include <iomanip>  // For fixed and setprecision
using namespace std;

const int NUM_EXPERIMENTS = 3;
const int NUM_READINGS = 3;

int main() {
    double readingValue, total, average;

    for (int i = 1; i <= NUM_EXPERIMENTS; i++) {
        total = 0;  // Reset total for each experiment
        cout << "\nEXPERIMENT " << i << ":\n";
        cout << "-------------------\n";

        for (int j = 1; j <= NUM_READINGS; j++) {
            cout << "Enter reading " << j << " value: ";
            cin >> readingValue;
            total += readingValue;  // Accumulate the readings
        }

        average = total / NUM_READINGS;  // Calculate the average

        // Evaluate the average against the acceptable ranges
        if (average < 100) {
            cout << "Experiment " << i << " average: " << fixed << setprecision(2) <<
average
```

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            << " is Below acceptable range\n";
        } else if (average >= 100 && average <= 300) {
            cout << "Experiment " << i << " average: " << fixed << setprecision(2) <<
average
                << " is Within acceptable range\n";
        } else {
            cout << "Experiment " << i << " average: " << fixed << setprecision(2) <<
average
                << " is Above acceptable range\n";
        }
    }

    return 0;
}
```