//03-01 manipulators

//Computes the size of a dog house that can be purchased

//given the user’s budget.

#include <iostream>

#include <cmath>

#include <conio.h>

using namespace std;

int main( )

{

const double COST\_PER\_SQ\_FT = 10.50;

double budget, area, lengthSide;

cout << "Enter the amount budgeted for your dog house $";

cin >> budget;

area = budget/COST\_PER\_SQ\_FT;

lengthSide = sqrt(area);

cout.setf(ios::fixed***);//manipulator***

***/\*Fixed-point arithmetic. ... In computing, a fixed-point number representation is a real data type for a number that has a fixed number of digits after (and sometimes also before) the radix point (after the decimal point '.' in English decimal notation).\*/***

cout.setf(ios::showpoint);

cout.precision(2); ***//manipulator***

cout << "For a price of $" << budget << endl

<< "I can build you a luxurious square dog house\n"

<< "that is " << lengthSide

<< " feet on each side.\n";

\_getch();

return 0;

}