//**04-09** Driver program for the function unitPrice.

//outside the program for which it is intended

// to obtain reasonable values for simple function arguments

// most often to check input and output

//easier to find where the mistake is

//once a function tested- add another function

//a simple version of untested function – a stub, just for some testing

// then replace stubs with complete functions

// then another stub is replaced

#include <iostream>

#include <conio.h>

using namespace std;

double unitPrice(int diameter, double price);

//Returns the price per square inch of a pizza.

//Precondition: The diameter parameter is the diameter of the pizza

//in inches. The price parameter is the price of the pizza.

int main( )

{

double diameter, price;

char ans;

do

{

cout << "Enter diameter and price:\n";

cin >> diameter >> price;

cout << "unit Price is $"

<< unitPrice(diameter, price) << endl;

cout << "Test again? (y/n)";

cin >> ans;

cout << endl;

} while (ans == 'y' || ans == 'Y');

system("pause");

return 0;

}

double unitPrice(int diameter, double price)

{

const double PI = 3.14159;

double radius, area;

radius = diameter/static\_cast<double>(2);

area = PI \* radius \* radius;

return (price/area);

}