#include <iostream>

using namespace std;

int main()

{

int areacalculator;

cout << "This is an area calculator.\n\n";

cout << "Please type in the designated number for the shape that you want to find the area of:" << endl;

cout << "1. Rectangle\n2. Triangle\n3. Circle\n" << endl;

cin >> areacalculator;

if (areacalculator == 1) {

double width, height;

cout << "\nPlease enter the width:\n";

cin >> width;

cout << "Please enter the height:\n";

cin >> height;

float area = width \* height;

cout << "The area is: " << area << endl;

}

else if (areacalculator == 2) {

double base, height;

cout << "\nPlease enter the base:\n";

cin >> base;

cout << "Please enter the height:\n";

cin >> height;

float area = .5 \* base \* height;

cout << "The area is: " << area << endl;

}

else if (areacalculator == 3) {

double radius;

double pi = 3.14159;

cout << "\nPlease enter the radius:\n";

cin >> radius;

float area = radius \* radius \* pi;

cout << "The area is: " << area << endl;

}

else {

cout << "\nYou need to enter either 1, 2, or, 3.\n\n";

cout << "Terminating Program." << endl;

}

return 0;

}