8.Write a program with two function area and perimeter to find the area and perimeter of a square.

Coding:

#include <iostream>

// Function declarations

double calculateArea(double side);

double calculatePerimeter(double side);

int main() {

double sideLength;

// Input the side length of the square from the user

std::cout << “Enter the side length of the square: “;

std::cin >> sideLength;

// Check if the input is valid

if (sideLength <= 0) {

std::cout << “Side length must be positive.” << std::endl;

return 1; // Exit with error code

}

// Calculate area and perimeter

double area = calculateArea(sideLength);

double perimeter = calculatePerimeter(sideLength);

// Display the results

std::cout << “The area of the square is: “ << area << std::endl;

std::cout << “The perimeter of the square is: “ << perimeter << std::endl;

return 0;

}

// Function to calculate the area of a square

double calculateArea(double side) {

return side \* side;

}

// Function to calculate the perimeter of a square

double calculatePerimeter(double side) {

return 4 \* side;

}

