// c++ function to calculate the volume of a cylinder

#include <iostream>

#include <cmath> //for M\_PI

using namespace std;

double calculatecylindervolume(double radius, double height) {

return M\_PI \* radius \* radius \* height;

}

int main() {

double radius, height;

//prompt user to enter radius

cout <<"Enter the radius: ";

cin >>radius;

//prompt user to enter height

cout <<"Enter the height: ";

cin >> height;

//calculate the volume

double volume = calculatecylindervolume(radius, height);

//Display the volume

cout << "The volume of the cylinder is:" << volume << endl;