//T14ConE04.cpp - calculates and displays the total rainfall

#include <iostream>

#include <fstream>

using namespace std;

//function prototype

// add const for inclass example.

float calcTotal(float []);

int main()

{

//declare variable

int x = 0; //keeps track of subscripts

//declare array

float rainFall[12] = {0.0};

//declare file object and open file

ifstream inFile;

inFile.open("rainfall.dat", ios::in);

if (inFile.is\_open())

{

//fill array with file data

while (x < 12 && !inFile.eof())

{

inFile >> rainFall[x];

x = x + 1;

} //end while

inFile.close(); //close file

//display total rainfall

cout << "Total rainfall: " << calcTotal(rainFall) << endl;

}

else

cout << "File could not be opened" << endl;

return 0;

//end if

} //end of main function

//\*\*\*\*\*program-defined functions\*\*\*\*\*

float calcTotal(float r[])

{

int x = 0; //keeps track of subscripts

float total = 0.0; //accumulator

while (x < 12)

{

total = total + r[x];

x = x + 1;

} //end while

return total;

} //end of calcTotal function