// Define a class Metropolis with the following specifications:

// Private members:

// mCode - integer type.

// mName - string type.

// mPop - long integer type.

// area - floating-point type.

// popDense - floating-point type.

// calDen() - to calculate (mPop / area) and store in popDense.

//

// Public members:

// enter() - allows user to enter values of mCode, mName,

// mPop, area, and finally call calDen() function.

//

// viewAll() - to display all the data members and a message:

// "Highly Populated Area" if popDense > 12000.

////////////////////////////////////////////////////////////////////

#include <iostream.h>

#include <stdio.h>

#include <conio.h>

class Metropolis {

private:

int mCode;

char mName[25];

long mPop;

float area, popDense;

void calDen() { popDense = mPop/area; }

public:

void enter() {

cout << "Enter city code: "; cin >> mCode;

cout << "Enter city name: "; gets(mName);

cout << "Enter Population: "; cin >> mPop;

cout << "Enter Area: "; cin >> area;

}

void viewAll() {

cout << "City Code : " << mCode << endl;

cout << "City Name : " << mName << endl;

cout << "Population : " << mPop << endl;

cout << "Area : " << area << endl;

cout << "Population Density : " << popDense << endl;

if (mPop > 12000)

cout << "Highly Populated Area" << endl;

}

};

void main() {

clrscr();

Metropolis city;

city.enter();

cout << endl;

city.viewAll();

getch();

}

// Define a class Restra with the following specifications:

// Private members:

// foodCode - integer type.

// food - string type.

// ftype - string type.

// sticker - string type.

// getSticker() - to assign the following values for sticker as

// per the given ftype:

// ftype sticker

// ----- -------

// "vegeteranian" "green"

// "contains egg" "yellow"

// "non-vegeteranian" "red"

//

// Public members:

// getFood() - to allow user to enter values for foodCode, food,

// ftype, and call function getSticker().

//

// showFood() - to view the content of all the data members.

///////////////////////////////////////////////////////////////////////

#include <iostream.h>

#include <stdio.h>

#include <string.h>

#include <conio.h>

class Restra {

private:

int foodCode;

char food[25], ftype[20], sticker[10];

void getSticker() {

if (strcmp(ftype, "vegeteranian") == 0)

strcpy(sticker, "green");

else if (strcmp(ftype, "contains egg") == 0)

strcpy(sticker, "yellow");

else

strcpy(sticker, "red"); // Non-vegeteranian

}

public:

void getFood() {

cout << "Enter food code: "; cin >> foodCode;

cout << "Enter food: "; gets(food);

cout << "Enter food type: "; gets(ftype);

getSticker();

}

void showFood() {

cout << "Food Code : " << foodCode << endl;

cout << "Food : " << food << endl;

cout << "Food Type : " << ftype << endl;

cout << "Sticker : " << sticker << endl;

}

};

void main() {

clrscr();

Restra grub;

grub.getFood();

cout << endl;

grub.showFood();

getch();

}