// =======================

// Included: HW #6

// =======================

// HW #6 source.cpp

// =======================

// Christian Falucho

// CMPR 121

// =======================

/\*====================== Cats.h =======================\*/

const int SIZE = 25;

struct Cat{

char name[SIZE];

int age;

};

/\*====================== Cats.h =======================\*/

#include <iostream>

#include <fstream>

#include <string>

#include "Cats.h"

using namespace std;

/\*

===========================================================

=== MAIN FUNCTION BEGINS ===

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\*/

int main (){

int count = 3;

int i = 0;

Cat cats;

fstream writeFile;

writeFile.open("critters.bin", ios::binary | ios::out);

cout << "Enter 3 cat records. \n";

while (i < count)

{

cout << "Enter information about a cat: \n";

cout << "NAME: ";

cin.getline(cats.name, sizeof(cats.name));

cout << "AGE: ";

cin >> cats.age;

writeFile.write(reinterpret\_cast<char \*>(&cats), sizeof(cats));

cin.ignore();

i++;

}

writeFile.close();

return 0;

}

/\*

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=== MAIN FUNCTION ENDS ===

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=== CODE OUTPUT ===

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A screenshot of a computer

AI-generated content may be incorrect.

A screenshot of a computer

AI-generated content may be incorrect.

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=== CODE OUTPUT ===

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// =======================

// Included: HW #6

// =======================

// HW #6 driver.cpp

// =======================

// Christian Falucho

// CMPR 121

// =======================

#include <iostream>

#include <fstream>

#include <string>

#include <iomanip>

#include "Cats.h"

using namespace std;

/\*

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=== MAIN FUNCTION BEGINS ===

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\*/

int main(){

// string filename = "critters.bin";

fstream catFile;

Cat cats;

// fstream writeFile;

catFile.open("critters.bin", ios::binary | ios::app);

cout << "Enter cat record: \n";

cout << "NAME: ";

cin.getline(cats.name, sizeof(cats.name));

cout << "AGE: ";

cin >> cats.age;

catFile.write(reinterpret\_cast<char \*>(&cats), sizeof(cats));

catFile.close();

cout << endl;

cout << "Now reading the file. \n\n";

// Open and read the binary file

catFile.open("critters.bin", ios::in | ios::binary);

if (!catFile)

{

cout << "File does not open.";

}

catFile.read(reinterpret\_cast<char \*>(&cats), sizeof(cats));

cout << "Here is a list of all cats:\n";

while (!catFile.eof())

{

cout << setw(10) << left << cats.name << cats.age << endl;

catFile.read(reinterpret\_cast<char \*>(&cats), sizeof(cats));

}

// cout << "That's all the data in the file. \n";

catFile.close();

}

/\*

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=== MAIN FUNCTION ENDS ===

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=== CODE OUTPUT ===

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A computer screen shot of a black screen

AI-generated content may be incorrect.

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=== CODE OUTPUT ===

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