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OOC Assignment 2

MLB\_WE \_01.02\_05\_Online Apartment sale system

Definition of the class

#include <cstring>

#include <iostream>

#define SIZE 4

using namespace std;

class Apartment;

class Buyer;

//Apartment class

class Apartment

{

private:

int apartmentID;

string apartmentname;

string apartmentaddress;

public:

Apartment();

Apartment(int n);

Apartment(int Aid, string Aname, string Aaddress);

void displayApartment();

void Display();

~Apartment();

};

//Buyer class

class Buyer : public User {

protected:

int buyerID;

private:

Seller\* seller[SIZE]; // an object of Seller as attribute of Buyer

Renter\* r[SIZE]; // an object of Renter as attribute of Buyer

public:

Buyer() {}

Buyer(string Bname, string Baddress, int Bage, int Bid);

void display();

void chooseApartment();

void chooseRentalhouse();

void displayDetails();

};

Implementation of the class

#include <cstring>

#include <iostream>

#include "classes.h"

#define SIZE 4

using namespace std;

//Apartment class

Apartment::Apartment()

{ }

Apartment::Apartment(int n)

{

apartmentID = n;

}

Apartment::Apartment(int Aid, string Aname, string Aaddress)

{

apartmentID = Aid;

apartmentname = Aname;

apartmentaddress = Aaddress;

}

void Apartment::displayApartment()

{

cout << " Apartment ID = " << apartmentID << endl;

cout << "Apartment name = " << apartmentname << endl;

cout << " Apartment Address = " << apartmentaddress << endl;

}

void Apartment::Display() {

cout << "Apartment id " << apartmentID << endl;

}

Apartment::~Apartment() {

cout << "Deleting apartment " << apartmentID << endl;

}

//Buyer class

Buyer::Buyer()

{}

Buyer::Buyer(string Bname, string Baddress, int Bage, int Bid) {

name = Bname;

address = Baddress;

age = Bage;

buyerID = Bid;

}

void Buyer::Buyer::display() {

cout << "this is the Buyer class. "

<< "Derived class from User. " << endl;

}

void Buyer::chooseApartment()

{}

void Buyer::chooseRentalhouse()

{}

void Buyer::displayDetails() {

cout << name << " " << address << " " << age << " " << buyerID << endl;

}

Main program

#include <cstring>

#include <iostream>

#include "classes.h"

#define SIZE 4

using namespace std;

int main() {

User u1("Kamal", "Kurunegala", 22);

u1.display();

u1.displayDetails();

cout << endl << endl << " \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl << endl;

Apartment\* a = new Apartment(12, "Araliya", "Colombo 7");

a->displayApartment();

cout << endl << endl << " \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl << endl;

RentalHouse\* r = new RentalHouse(34, "Rent land", "Kaduwela");

r->displayRentalHouse();

cout << endl << endl << " \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl << endl;

Payment p1;

p1.displayPayment();

cout << endl << endl << " \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl << endl;

Seller\* se;

se = new Seller(305, 506, 45, 43);

se->DisplaySeller();

delete se;

cout << endl << endl << " \*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*\*" << endl << endl;

Renter\* re;

re = new Renter(45, 34, 67, 37);

re->DisplayRenter();

delete re;

return 0;

}