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Problem Description

A real estate company needs to update the rent of their single-family houses and apartments to match their new prices. This program first outputs the old rental information, including the rental number, rental type, rental ID, number of bedrooms, and the rent price. Then, the program increases the rent by 4% for the single family households and by 8% for apartments. Then, it outputs the information again with the updated rent. Finally it outputs the prices for each ID again, this time putting the ID’s in numerical order and separating them by type.

Major Program Components (Classes, Objects, and Methods)

Interface: Payment

Method: void PrintOldInfo()

Method: Boolean UpdateRent(int i)

Method: void PrintNewInfo()

Method: void Print()

Class: RentalProperty

Object: properties

Method: void PrintOldInfo()

Method: Boolean UpdateRent(int i)

Method: void PrintNewInfo()

Method: void Print()

Subclass: SingleFamilyRental

Method: Boolean UpdateRent(int i)

Subclass: ApartmentRental

Method: Boolean UpdateRent(int i)

UML Diagram

Diagram

Description automatically generated

Control Flow (Flow Chart)

Diagram

Description automatically generated

User Execution

Open the program to see the old rental information, followed by the rental information with the updated prices, followed by the rent price for each ID, with the ID’s sorted by type (single family house or apartment) and in numerical order.