

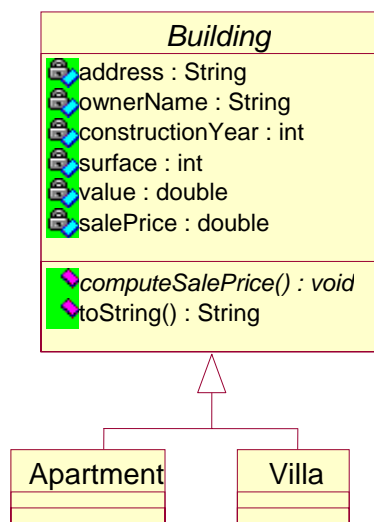
Test

A real agency intermediates the sale and purchase of buildings by both types: apartments and villas. Every building has the following attributes: address, owner name, construction year, surface, value. Adding to the value estimated by agency and owner, the agency takes a sale/purchase commission by 30% for villas and 20 % for apartments.

We are assuming that all information about the buildings of the real agency together with the kind of building is memorized in the file named “buildings.txt”. This file might have the following content:

```
Tomis 45 Blvd._Vasilescu Marin_1980_66_30000€_apartment
Oak 34 Alley_Ionescu Ion_2003_90_75000€_villa
Roses 31 Alley_Popescu Pop_2003_80_70000€_villa
Tomis 41 Blvd._Nastase Ion_1980_66_25000€_apartment
Lily 40 Alley_Marinescu Ion_1980_66_50000€_apartment
```

The program uses at least the following class diagram.



Write a program that fulfills the following functions:

- Memorize in two object collections information about each building depending on its type.
- Computes the sale price for every building.
- Display in ascending order information about the apartments and in descending order information about the villas. The order criterion is after the sale price of the buildings and if two sale prices are equal then the order will be done after their value.