# **REAL ESTATE MANAGEMENT**

* list of Commercial or Residential properties (bachelors or family) (rental or for sell)
* delete properties from the list
* print the list to the screen
* save the list to a file
* search option (many criteria)
* different for broker, seller and buyer
* Property class: (parent class)

Data members

Property Number  
Address  
City, State, ZIP Code  
Stories  
Condition - (1 - Excellent, 2 - Fair, 3 – Poor)  
Year Built – the year the property was built  
Market Value – the current market value of the property ($)  
type - 1 for residential, 2 for commercial. No setter needed

member functions:  
Constructors – Optional   
getters and setters for member variables  
print () – this function should be overridden by the child classes but can be implemented to avoid redundancy  
calculate Property Taxes () – this function should be overridden by the child classes for now just return 0  
double calculate Rent () – this function should be overridden by the Commercial class for now just return 0

* Residential Property class inherits from Property

Member variables:

Style - Single-family, Multi-Unit, Semi Detached, Portable-Dwelling,   
Bedrooms – number of bedrooms  
Bathrooms – number of bathrooms (can have half baths)  
  
Member function:

Constructors – Optional. I used it to set the type to its proper value  
getters and setters for member variables  
print () – override this function to print common and specific info  
double calculate Property Taxes () – override this function (property taxes for residential property is 5% of market value)  
  
  
.Commercial Property inherits from Property

Member variables

Max Occupancy - maximum number people that can be in the building  
Building Size - square footage  
Rent Per Square Ft  
  
Member functions:

Constructors – Optional. I used it to set the type to its proper value  
getters and setters for member variables  
print () – override this function to print common and specific info  
double calculate Property Taxes () – override this function (property taxes for residential property is 15% of market value)  
double calculate Rent() – this function uses the building size and the rent per sq. ft to calculate total rent