Pseudocode Project four:

Property.java

Create a public class and call it Property

Create instance variables for property name, city, rental amount, owner, and plot

Create first constructor with no parameter

Create second constructor that copy another property in it

Create third constructor with four parameters

Create forth constructor with eight parameters that contains the coordinates of the location and some related info

Create getter and setter methods

Create toString method that returns some features of property

Plot.java

Create a class and call it Plot

Create instance variables to represent the x and y coordinates of the upper left corner of the location, and depth and width to represent the vertical and horizontal extends of the plot

Create three constructors

Create getter and setter methods

Create isBetween method that recognize if number v is between another two numbers like start and extend

Create overlap method that with using isBetween method recognize if two plots have overlap with each other or not

Create encompasses method that with using isBetween method recognize if another plot is between this plot or not

Create toString method that returns some information about one plot

ManagementCompany.java

Create a class and call it ManagementCompany

Create instance variables of name, tax Id, management fee, MAX\_PROPERTY and an array

Create two constants MGMT\_WIDTH and MGMT\_DEPTH

Create four constructors

Create getPlot method that returns plot

Create getName method that returns name

Create three versions of addProperty method that returns the index of the array where the property is added

Create displayPropertyAtIndex method that display one of the array’s elements corresponding with index if it isn’t null

Create getMAX\_PROPERTY that returns the value of MAX\_PROPERTY

Create maxRentProp that returns the highest rent amount of the property within the properties array

Create maxRentPropertyIndex that returns the index of the property within the properties array that has the highest amount

Create totalRent method that returnsthe total rent of the properties in the properties array

Create toString method that returns information of all the properties within this management company by accessing the properties array

Output Screenshot

**A screenshot of a computer

Description automatically generated**

Learning Experience

1. Use of StringBuilder class to aggregate String in toString method.
2. Pass an object to the method as a parameter like passing property and plot objects to various methods.
3. We can build an array of objects. it means each element of array is an object
4. Created a constructor that copy another object to this one
5. Convert double to string with use of Double.toString()