SummaryofHousingDataset

Interpretation of summary: From the results, we have both *numerical data* and *categorical data* present in our Housing dataset. For the numerical data, it is represented by the minimum (min.), average(mean), and maximum(max.) labels. For the categorical data, we see its entries and can understand if there are values, it is a 'yes', if there are no values, it is a 'no'. Below is a pictorial overview of said summary.

```
·ype  ·k/  ·· ·u·· ··
> Housing <- read.csv("~/A99/Doc/dataset/Housing.csv")
>   View(Housing)
> summary(Housing)
     price                 area           bedrooms          bathrooms
 Min.   : 1750000    Min.   : 1650    Min.   :1.000    Min.   :1.000
 1st Qu.: 3430000    1st Qu.: 3600    1st Qu.:2.000    1st Qu.:1.000
 Median : 4340000    Median : 4600    Median :3.000    Median :1.000
 Mean   : 4766729    Mean   : 5151    Mean   :2.965    Mean   :1.286
 3rd Qu.: 5740000    3rd Qu.: 6360    3rd Qu.:3.000    3rd Qu.:2.000
 Max.   :13300000    Max.   :16200    Max.   :6.000    Max.   :4.000
    stories             mainroad          guestroom
 Min.   :1.000      Length:545         Length:545
 1st Qu.:1.000      Class :character   Class :character
 Median :2.000      Mode  :character   Mode  :character
 Mean   :1.806
 3rd Qu.:2.000
 Max.   :4.000
   basement          hotwaterheating      airconditioning
 Length:545         Length:545          Length:545
 Class :character   Class :character    Class :character
 Mode  :character   Mode  :character    Mode  :character




    parking             prefarea          furnishingstatus
 Min.   :0.0000     Length:545          Length:545
 1st Qu.:0.0000     Class :character    Class :character
 Median :0.0000     Mode  :character    Mode  :character
 Mean   :0.6936
 3rd Qu.:1.0000
 Max.   :3.0000
> |
```

Thecategoriesthatfallinthenumericdataarepriceofthebuilding,areaofthebuilding,bedrooms available in the building, number of bathrooms, number of stories and parking space(s) available. TheirlabelsarePrice,area,bedrooms,bathrooms,stories,andparkingrespectively. So,forprice,we have the min value to be 1750000, while its max value is 13300000.

For the ones in the categorical data, they are: Main road, guestroom, basement, hot water heating, airconditioning,preferredarea,andfurnishingstatus.Alltheseareansweredwitheither a'yes'ora 'no'. Is there air conditioning? Yes. The measurement of said data is thus given, in length, indicating it exists.