

# Assignment1

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## R Markdown

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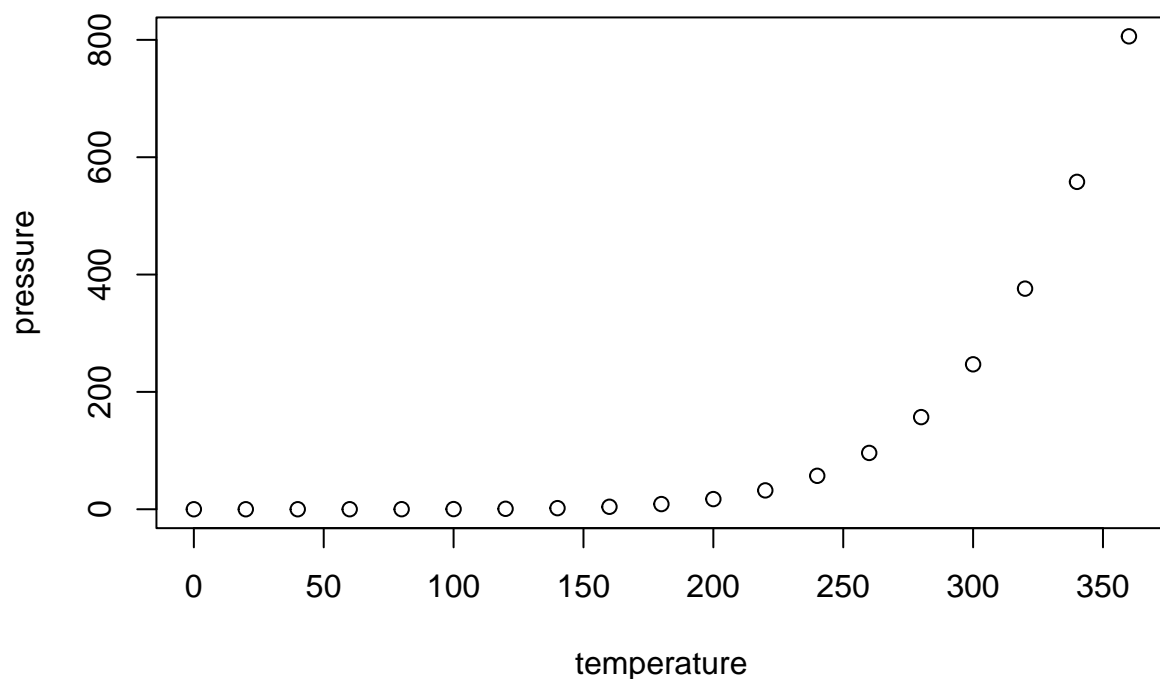
When you click the **Knit** button a document will be generated that includes both content as well as the output of any embedded R code chunks within the document. You can embed an R code chunk like this:

```
summary(cars)
```

```
##      speed      dist
##  Min.   : 4.0    Min.   :  2.00
##  1st Qu.:12.0    1st Qu.: 26.00
##  Median :15.0    Median : 36.00
##  Mean   :15.4    Mean   : 42.98
##  3rd Qu.:19.0    3rd Qu.: 56.00
##  Max.   :25.0    Max.   :120.00
```

## Including Plots

You can also embed plots, for example:



```
#1,2.naming the dataset and importing the dataset into R from source kaggle
library(ggplot2)
shivani_dataset <- read.csv("C:/Users/shiva/OneDrive/Desktop/House_Rent_Dataset.csv")
View(shivani_dataset)
head(shivani_dataset, n=15)
```

```
##      Posted.On BHK  Rent Size      Floor  Area.Type
## 1  2022-05-18   2 10000 1100 Ground out of 2 Super Area
## 2  2022-05-13   2 20000   800    1 out of 3 Super Area
## 3  2022-05-16   2 17000 1000    1 out of 3 Super Area
## 4  2022-07-04   2 10000   800    1 out of 2 Super Area
## 5  2022-05-09   2  7500   850    1 out of 2 Carpet Area
## 6  2022-04-29   2  7000   600 Ground out of 1 Super Area
## 7  2022-06-21   2 10000   700 Ground out of 4 Super Area
## 8  2022-06-21   1  5000   250    1 out of 2 Super Area
## 9  2022-06-07   2 26000   800    1 out of 2 Carpet Area
## 10 2022-06-20   2 10000 1000    1 out of 3 Carpet Area
## 11 2022-05-23   3 25000 1200    1 out of 4 Carpet Area
## 12 2022-06-07   1  5000   400    1 out of 1 Carpet Area
## 13 2022-05-14   1  6500   250    1 out of 4 Carpet Area
## 14 2022-05-09   1  5500   375    1 out of 2 Carpet Area
## 15 2022-05-05   3  8500   900 Ground out of 2 Carpet Area
##
##      Area.Locality  City Furnishing.Status Tenant.Preferred
## 1              Bandel Kolkata      Unfurnished Bachelors/Family
## 2      Phool Bagan, Kankurgachi Kolkata    Semi-Furnished Bachelors/Family
## 3      Salt Lake City Sector 2 Kolkata    Semi-Furnished Bachelors/Family
```

```
## 4          Dumdum Park Kolkata      Unfurnished Bachelors/Family
## 5          South Dum Dum Kolkata      Unfurnished      Bachelors
## 6          Thakurpukur Kolkata      Unfurnished Bachelors/Family
## 7          Malancha Kolkata      Unfurnished      Bachelors
## 8          Malancha Kolkata      Unfurnished      Bachelors
## 9  Palm Avenue Kolkata, Ballygunge Kolkata      Unfurnished      Bachelors
## 10         Natunhat Kolkata      Semi-Furnished Bachelors/Family
## 11 Action Area 1, Rajarhat Newtown Kolkata      Semi-Furnished Bachelors/Family
## 12         Keshtopur Kolkata      Unfurnished Bachelors/Family
## 13         Tarulia, Keshtopur Kolkata      Furnished      Bachelors
## 14         Dum Dum Metro Kolkata      Unfurnished Bachelors/Family
## 15         Paschim Barisha Kolkata      Unfurnished      Bachelors
##      Bathroom Point.of.Contact
## 1          2      Contact Owner
## 2          1      Contact Owner
## 3          1      Contact Owner
## 4          1      Contact Owner
## 5          1      Contact Owner
## 6          2      Contact Owner
## 7          2      Contact Agent
## 8          1      Contact Agent
## 9          2      Contact Agent
## 10         2      Contact Owner
## 11         2      Contact Agent
## 12         1      Contact Agent
## 13         1      Contact Owner
## 14         1      Contact Agent
## 15         2      Contact Owner
```

```
#printing out the first 15 entries in the dataframe
tail(shivani_dataset)
```

```
##      Posted.On BHK  Rent Size      Floor  Area.Type      Area.Locality
## 4741 2022-06-02   2 12000 1350   2 out of 2  Super Area      Old Alwal
## 4742 2022-05-18   2 15000 1000   3 out of 5  Carpet Area      Bandam Kommu
## 4743 2022-05-15   3 29000 2000   1 out of 4  Super Area  Manikonda, Hyderabad
## 4744 2022-07-10   3 35000 1750   3 out of 5  Carpet Area  Himayath Nagar, NH 7
## 4745 2022-07-06   3 45000 1500 23 out of 34  Carpet Area      Gachibowli
## 4746 2022-05-04   2 15000 1000   4 out of 5  Carpet Area      Suchitra Circle
##      City Furnishing.Status Tenant.Preferred Bathroom Point.of.Contact
## 4741 Hyderabad      Unfurnished Bachelors/Family      2      Contact Owner
## 4742 Hyderabad      Semi-Furnished Bachelors/Family      2      Contact Owner
## 4743 Hyderabad      Semi-Furnished Bachelors/Family      3      Contact Owner
## 4744 Hyderabad      Semi-Furnished Bachelors/Family      3      Contact Agent
## 4745 Hyderabad      Semi-Furnished      Family      2      Contact Agent
## 4746 Hyderabad      Unfurnished      Bachelors      2      Contact Owner
```

```
#printing out the last 6 entries in the dataframe
nrow(shivani_dataset)
```

```
## [1] 4746
```

```
#printing out the total number of rows in the dataframe
ncol(shivani_dataset)
```

```
## [1] 12
```

```
#printing out the total number of columns in the dataframe
str(shivani_dataset)
```

```
## 'data.frame':    4746 obs. of  12 variables:
## $ Posted.On      : chr  "2022-05-18" "2022-05-13" "2022-05-16" "2022-07-04" ...
## $ BHK            : int   2 2 2 2 2 2 2 1 2 2 ...
## $ Rent           : int  10000 20000 17000 10000 7500 7000 10000 5000 26000 10000 ...
## $ Size           : int   1100 800 1000 800 850 600 700 250 800 1000 ...
## $ Floor          : chr   "Ground out of 2" "1 out of 3" "1 out of 3" "1 out of 2" ...
## $ Area.Type      : chr   "Super Area" "Super Area" "Super Area" "Super Area" ...
## $ Area.Locality   : chr   "Bandel" "Phool Bagan, Kankurgachi" "Salt Lake City Sector 2" "Dum Dum Park" ...
## $ City           : chr   "Kolkata" "Kolkata" "Kolkata" "Kolkata" ...
## $ Furnishing.Status: chr   "Unfurnished" "Semi-Furnished" "Semi-Furnished" "Unfurnished" ...
## $ Tenant.Preferred: chr   "Bachelors/Family" "Bachelors/Family" "Bachelors/Family" "Bachelors/Family" ...
## $ Bathroom        : int    2 1 1 1 1 2 2 1 2 2 ...
## $ Point.of.Contact: chr   "Contact Owner" "Contact Owner" "Contact Owner" "Contact Owner" ...
```

```
#To view the structure of the dataframe
summary(shivani_dataset)
```

```
##   Posted.On      BHK      Rent      Size
## Length:4746      Min.   :1.000   Min.   : 1200   Min.   : 10.0
## Class :character 1st Qu.:2.000   1st Qu.: 10000   1st Qu.: 550.0
## Mode  :character Median :2.000   Median : 16000   Median : 850.0
##                Mean  :2.084   Mean  : 34993   Mean  : 967.5
##                3rd Qu.:3.000   3rd Qu.: 33000   3rd Qu.:1200.0
##                Max.   :6.000   Max.   :3500000   Max.   :8000.0
##   Floor      Area.Type      Area.Locality      City
## Length:4746 Length:4746      Length:4746      Length:4746
## Class :character Class :character Class :character Class :character
## Mode  :character Mode  :character Mode  :character Mode  :character
##
##
##
##   Furnishing.Status Tenant.Preferred      Bathroom      Point.of.Contact
## Length:4746      Length:4746      Min.   : 1.000      Length:4746
## Class :character Class :character 1st Qu.: 1.000      Class :character
## Mode  :character Mode  :character Median : 2.000      Mode  :character
##                Mean  : 1.966
##                3rd Qu.: 2.000
##                Max.   :10.000
```

```
#To view the summary of the dataframe
```

```
shivani_datasettransformed <- (shivani_dataset$Rent + mean(shivani_dataset$Rent)/var(shivani_dataset$Rent))
shivani_datasettransformed
```

##	[1]	10000	20000	17000	10000	7500	7000	10000	5000	26000
##	[10]	10000	25000	5000	6500	5500	8500	40000	6000	10000
##	[19]	11000	6000	7900	9000	4000	6500	8000	7000	5300
##	[28]	6000	8500	12500	7500	15000	6000	5000	22000	15000
##	[37]	12500	7000	21000	10000	7200	12000	5000	8500	6000
##	[46]	10000	4600	12000	30000	15000	7500	7500	5000	15000
##	[55]	11000	7000	6000	6000	7000	8500	5000	30000	10000
##	[64]	30000	3500	8000	5000	7500	6500	7500	7500	16000
##	[73]	16000	6500	40000	12500	5500	5000	6500	8000	14500
##	[82]	8200	15000	20000	6700	10000	7000	22000	6500	8500
##	[91]	18000	12000	9000	6000	20000	5000	12000	10000	18000
##	[100]	15000	22000	35000	21000	25000	180000	6000	14000	8000
##	[109]	8000	6000	8000	6000	20000	12000	15000	14000	5000
##	[118]	7000	3900	14000	6300	13000	6800	8000	10000	18000
##	[127]	8000	8000	4700	4700	4500	6000	16000	4700	14000
##	[136]	9000	5000	17500	8500	15000	12500	13000	8000	8000
##	[145]	8000	7000	2200	8000	5500	20000	7000	3500	5000
##	[154]	20000	7000	10000	7000	12000	14500	6000	9500	10000
##	[163]	3500	9000	40000	16500	8000	12000	6500	40000	5000
##	[172]	9000	7000	18000	9000	5500	7500	4000	10500	15000
##	[181]	15000	50000	12000	11000	12000	8000	18000	8000	7000
##	[190]	6500	13000	9000	10000	12000	5000	6000	5200	15000
##	[199]	9000	24000	5500	10000	15000	4700	5000	5000	15000
##	[208]	5000	6000	18000	8000	13000	7500	12000	11000	6000
##	[217]	20000	7000	30000	7500	6500	3000	5200	25000	12500
##	[226]	8500	3500	7000	3000	14000	18000	3500	16000	35000
##	[235]	21000	4500	15000	4500	5500	8500	5000	8500	9000
##	[244]	7500	7000	15000	7000	10000	7000	3200	6000	12000
##	[253]	6000	10000	12000	8000	5300	5000	8500	22000	7000
##	[262]	25000	7000	15000	6000	8000	40000	6000	15000	6500
##	[271]	8000	5500	9000	6000	15000	30000	30000	5000	15000
##	[280]	6500	4500	7000	6500	17500	10000	1500	25000	12000
##	[289]	7500	7000	3500	10000	14000	15000	6500	10000	10500
##	[298]	10000	5000	9000	20000	35000	15000	20000	12000	8000
##	[307]	3000	20000	9000	13000	7000	9000	9000	10000	15000
##	[316]	7000	8000	8000	5000	14000	5000	5000	12000	3200
##	[325]	8500	16000	14000	8000	7000	8000	3000	3800	6500
##	[334]	20000	30000	8000	14000	7200	7000	7000	7500	8500
##	[343]	12000	8500	9500	7500	12000	20000	8500	20000	6000
##	[352]	5500	7000	7000	6500	10000	5200	13000	7000	12000
##	[361]	15000	5000	8000	8000	5000	10000	12000	8000	21000
##	[370]	5000	9000	8000	7000	35000	15000	6200	9900	7000
##	[379]	5000	6500	40000	40000	12000	6500	10000	15000	5000
##	[388]	7000	6000	15000	10000	22000	8500	35000	7000	8500
##	[397]	6000	35000	6000	8000	5000	6000	15000	9000	5000
##	[406]	8000	35000	5500	35000	11000	10000	6500	6000	36125
##	[415]	6800	8500	5000	6500	6500	4500	6000	10000	12000
##	[424]	12000	12000	9000	5000	6000	5500	5500	8500	5000
##	[433]	23000	5500	8500	22000	5500	7000	5000	5000	6500
##	[442]	8000	5500	6000	5500	10000	10000	10000	12000	5200
##	[451]	4000	30000	5146	12000	7000	8500	7000	9500	8000
##	[460]	15000	22500	12500	34000	14000	9500	7000	20000	6500
##	[469]	7500	6500	9500	1800	7500	10000	15000	7000	6000
##	[478]	14000	22000	18000	10000	6000	10000	10000	5000	10000

##	[487]	7000	10000	6000	18000	8000	8000	13000	20000	6000
##	[496]	12000	10000	14000	10000	10500	6000	12000	14000	3700
##	[505]	40000	25000	2200	3300	5000	60000	6000	7000	5000
##	[514]	11000	10000	22000	65000	7500	45000	5000	12000	25000
##	[523]	18000	25000	25000	70000	45000	75000	14000	60000	160000
##	[532]	300000	22000	130000	33000	32000	30000	49000	28000	33500
##	[541]	85000	35000	270000	400000	21000	150000	22000	100000	60000
##	[550]	8000	20000	20000	25000	14000	19411	23000	190000	32000
##	[559]	68000	30000	110000	44000	20000	25000	40000	43000	44000
##	[568]	75000	32000	16000	65000	45000	57000	27000	57000	55000
##	[577]	40000	95000	85000	300000	80000	13000	28000	89000	28000
##	[586]	13000	24000	38000	32000	350000	40000	150000	45000	170000
##	[595]	30000	210000	75000	47000	14000	55000	120000	300000	70000
##	[604]	150000	62000	42000	130000	170000	20000	41000	65000	50000
##	[613]	85000	50000	30000	120000	60000	110000	84500	80000	50000
##	[622]	40000	34000	220000	25000	150000	85000	180000	40000	50000
##	[631]	38000	310000	50000	65000	210000	150000	32000	26000	60000
##	[640]	190000	100000	35000	68000	150000	18000	55000	65000	80000
##	[649]	53000	80000	18000	250000	17500	43000	13500	18000	75000
##	[658]	18000	160000	32000	55000	47000	35000	15000	50000	25500
##	[667]	350000	55000	25000	50000	65000	50000	65000	160000	25000
##	[676]	32000	21000	20000	55000	32000	150000	30000	150000	27000
##	[685]	47000	150000	27000	160000	100000	45002	48000	18000	7500
##	[694]	50000	55000	26000	17000	40000	43000	140000	140000	120000
##	[703]	400000	21000	40000	40000	230000	20000	60000	35000	300000
##	[712]	6500	15000	38000	35000	32000	16000	33000	8500	60000
##	[721]	20000	38000	100000	65000	80000	85000	600000	150000	130000
##	[730]	55000	23000	95000	40000	180000	25000	140000	55000	46000
##	[739]	22000	55100	65000	33000	320000	33000	25000	300000	100000
##	[748]	33000	35000	130000	80000	10000	92500	57000	170000	29999
##	[757]	42000	330000	24000	35000	14000	45000	36000	53500	80000
##	[766]	7500	140000	95000	130000	45000	110000	120000	60000	120000
##	[775]	40000	50000	36000	150000	230000	25000	190000	61000	70000
##	[784]	42000	27000	60000	85000	75000	200000	170000	180000	55000
##	[793]	600000	18000	19000	150000	18500	35000	200000	150000	70000
##	[802]	35000	45000	30000	50000	50000	42000	19500	90000	60000
##	[811]	55000	40000	40000	36000	45000	100000	42000	45000	40000
##	[820]	50000	11000	50000	34000	93000	69999	48000	55000	1000000
##	[829]	40000	130000	75000	23000	200000	55000	80000	220000	40000
##	[838]	35000	33003	450000	65000	45000	280000	55000	56000	55000
##	[847]	28000	150000	300000	50000	180000	190000	8000	75000	83000
##	[856]	32000	39000	150000	190000	160000	25000	90000	95000	30000
##	[865]	18500	18000	75000	150000	100000	170000	45000	200000	20000
##	[874]	85000	130000	40000	250000	15000	40000	48000	15000	28000
##	[883]	25000	34000	75000	45000	35000	32000	17000	230000	35000
##	[892]	8500	80000	55000	25000	40000	15500	45000	180000	51000
##	[901]	60000	36000	180000	75000	8000	50000	100000	16500	4500
##	[910]	34000	32000	50000	24000	62000	100000	21000	27000	10000
##	[919]	90000	8000	75000	230000	15000	260000	62000	43500	62000
##	[928]	400000	77500	30000	110000	20000	150000	55000	70000	65000
##	[937]	310000	18000	48000	10000	32000	32000	36000	22000	5500
##	[946]	15000	40000	28000	11000	40000	45000	180000	160000	36000
##	[955]	59000	40000	40000	72000	40000	16000	50000	24000	65000
##	[964]	33000	27000	52000	95000	68000	48000	32000	42000	60000

##	[973]	51500	130000	25000	85000	98000	100000	65000	23000	40000
##	[982]	45000	40000	23500	250000	110000	150000	22000	150000	75000
##	[991]	41000	150000	150000	53000	140000	200000	65000	48000	75000
##	[1000]	39000	70000	1200000	25000	45000	190000	140000	35000	60000
##	[1009]	15000	39000	190000	84000	68000	26000	42000	35000	44000
##	[1018]	60000	45000	250000	65000	20000	75000	500000	140000	45000
##	[1027]	9400	100000	65000	230000	180000	180000	120000	20000	130000
##	[1036]	400000	75000	350000	100000	55000	70000	30000	330000	75000
##	[1045]	14000	130000	40000	46000	27000	95000	94000	40000	150000
##	[1054]	30000	95000	130000	14000	100000	35000	57000	45000	11000
##	[1063]	50000	35000	100000	130000	52000	28000	18000	30000	45000
##	[1072]	130000	58000	65000	24000	54500	70000	67000	75000	45000
##	[1081]	98000	16000	95000	40000	300000	80000	380000	160000	44000
##	[1090]	200000	65000	50000	6000	280000	46000	35000	75000	20000
##	[1099]	25000	110000	29500	53000	85000	26000	33000	180000	70000
##	[1108]	17000	37000	27000	35500	24000	250000	180000	18500	200000
##	[1117]	70000	55000	24000	55000	150000	50000	300000	90100	57000
##	[1126]	40000	80000	95000	14000	50000	43000	55000	35000	33000
##	[1135]	47000	75000	45000	36000	40000	40000	32000	17000	77000
##	[1144]	290000	35000	40000	250000	47000	50000	32000	8000	240000
##	[1153]	85000	65000	75000	26500	45000	95000	38000	260000	300000
##	[1162]	180000	40000	300000	85000	110000	40000	45000	52000	90000
##	[1171]	140000	150000	65000	50000	54000	180000	60000	65000	35000
##	[1180]	43000	20000	57000	130000	25000	56000	55000	18000	100000
##	[1189]	76000	270000	45000	39000	12500	35000	55000	90000	250000
##	[1198]	25000	90000	120000	55000	70000	300000	25000	35000	120000
##	[1207]	27000	25000	150000	32000	40000	52000	80000	55000	30000
##	[1216]	20000	85000	40000	21000	43000	58000	130000	260000	46000
##	[1225]	6500	21000	46000	60000	65000	15000	130000	90000	62000
##	[1234]	160000	80000	80000	55000	100000	200000	100000	79500	84500
##	[1243]	100000	13000	100000	35000	72000	180000	26000	72000	8000
##	[1252]	130000	52000	13000	45000	180000	63000	7500	30000	28500
##	[1261]	100000	270000	38000	26000	70000	41000	27000	53000	65000
##	[1270]	85000	6000	43000	65000	280000	98000	330000	65000	85000
##	[1279]	40000	23000	55000	15000	52000	13000	95000	25000	21000
##	[1288]	360000	60000	19000	140000	30000	130000	80000	85000	65000
##	[1297]	33000	36000	22000	17000	55000	66000	140000	260000	32000
##	[1306]	45000	50000	18500	51000	140000	80000	30000	85000	15000
##	[1315]	50000	60000	23000	14500	40000	650000	80000	55000	12000
##	[1324]	45000	90000	43000	22000	20000	26000	850000	34999	35000
##	[1333]	50000	16000	55000	39000	100000	25000	25000	49500	21000
##	[1342]	110000	21000	46700	400000	280000	18000	80000	88000	90000
##	[1351]	38000	20000	140000	78000	21000	95000	90000	34000	55000
##	[1360]	52000	74999	75000	45000	22000	32000	34000	170000	23000
##	[1369]	20000	350000	90000	55000	15000	22000	60000	49000	34000
##	[1378]	24000	270000	69000	120000	32000	24000	100000	600000	45000
##	[1387]	80000	37000	210000	190000	25000	210000	200000	310000	26000
##	[1396]	27000	26000	60000	12000	180000	30000	100000	140000	70000
##	[1405]	20000	22000	32000	20000	50000	29000	45000	6500	55000
##	[1414]	69999	18500	50000	45000	85000	85000	25000	75000	190000
##	[1423]	20000	30000	75000	350000	70000	32000	22000	35000	47000
##	[1432]	400000	31000	60000	58000	85000	45000	7500	250000	150000
##	[1441]	80000	75000	66000	45000	22000	65000	55000	55000	36000
##	[1450]	230000	22000	170000	34000	45000	14000	75000	7000	55000

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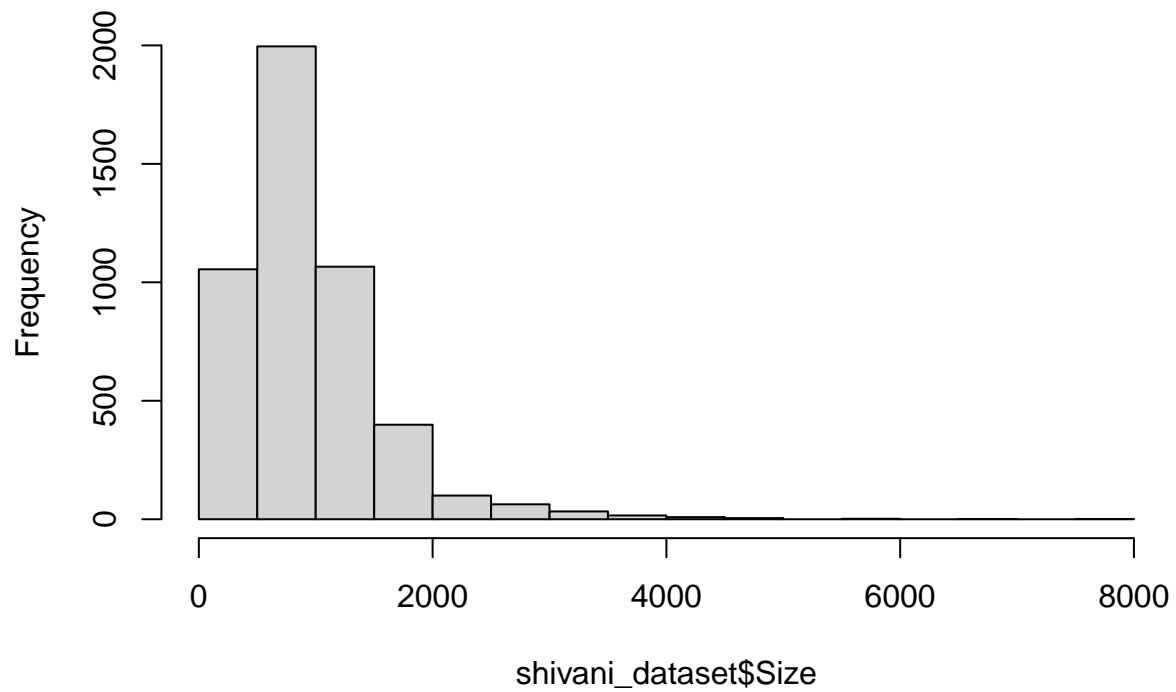
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##	[3646]	10000	13000	12500	10000	16000	11000	13000	15000	15000
##	[3655]	20000	12000	600000	11000	10000	30000	8000	7000	10000
##	[3664]	9300	10500	16000	20000	9000	18000	10000	16000	13500
##	[3673]	16000	8500	15000	8200	20000	9000	13500	26000	11000
##	[3682]	18000	10000	40000	24000	18000	11000	23000	11000	8000
##	[3691]	15000	9500	13500	11000	13000	25000	12000	25000	8500
##	[3700]	8500	5000	8500	100000	7500	7000	26000	12000	18000
##	[3709]	13000	160000	8000	6000	12500	6500	10000	12500	22000
##	[3718]	17000	20000	22000	11500	23000	19000	45000	17000	9500
##	[3727]	45000	60000	12000	40000	16000	9000	35000	4000	11000
##	[3736]	9500	25000	10000	12000	19397	12000	10000	20000	15000
##	[3745]	28000	10000	3500	8000	13500	36000	15000	5000	10000
##	[3754]	10000	8500	11000	8000	12000	5000	7000	15000	10000
##	[3763]	37500	7000	6500	16000	34000	11500	15000	8000	220000
##	[3772]	22000	85000	6000	14000	11500	6000	24000	32000	16000
##	[3781]	13000	14000	7500	10000	18500	12000	17000	35000	9000
##	[3790]	13000	27999	11000	140000	12000	13000	250000	80000	22999
##	[3799]	36000	70000	12500	18000	10000	18000	37000	18000	25000
##	[3808]	10000	15000	15000	9000	14000	8500	35000	10000	5000
##	[3817]	23000	15000	18500	28000	32000	14000	7000	33000	100000
##	[3826]	18000	16000	8500	10000	13500	19000	11500	22000	12000
##	[3835]	10000	15000	35000	70000	32000	35000	10000	11000	12000
##	[3844]	40000	8000	20000	12000	15000	27000	13000	9000	25000
##	[3853]	12000	18000	9500	14000	40000	70000	15000	8500	27500
##	[3862]	15000	5000	26000	14000	20000	12000	17000	75000	19500
##	[3871]	10000	32000	15000	28000	10677	50000	32500	23000	75000
##	[3880]	250000	10000	60000	12000	48000	58000	14000	7000	13000

## [3889]	11000	9500	7500	14000	16000	18000	8200	12000	10000
## [3898]	13000	22000	10500	11000	20000	14000	12500	10500	30000
## [3907]	11000	9000	35000	23382	9500	9000	60000	11000	11000
## [3916]	11000	8000	9000	8000	5500	12000	25000	23000	12000
## [3925]	6500	9000	25000	12500	45000	27000	75000	9000	12000
## [3934]	24000	15000	24000	12000	27000	30000	20000	22000	25000
## [3943]	23000	12000	18000	55000	5000	13000	9000	7000	28000
## [3952]	15000	14000	45000	12000	12500	13000	9500	35000	4000
## [3961]	8000	12500	65000	13000	12500	45000	6000	50000	40000
## [3970]	30000	7000	25000	9000	16000	10500	100000	9000	11000
## [3979]	24000	12000	20000	24000	12000	12000	10000	45000	22000
## [3988]	6500	40000	300000	4000	12000	27000	10000	10000	10000
## [3997]	18000	14500	9000	14000	18000	9500	49000	9000	130000
## [4006]	8000	13000	18000	18000	32000	15000	35000	6000	9000
## [4015]	9500	12500	25000	15000	38000	20000	15000	130000	27000
## [4024]	16000	13000	10000	10000	17000	12500	25000	35000	12000
## [4033]	12000	15000	45000	20000	15000	10000	15000	19800	8500
## [4042]	130000	8500	4500	9000	13000	18000	26000	17000	9000
## [4051]	8000	10000	12000	14000	25000	22000	45000	20000	16000
## [4060]	35000	15000	5500	35000	14000	25000	36000	20000	30000
## [4069]	12000	16000	13000	22000	15000	14000	8000	57000	1200
## [4078]	8000	15000	17000	12000	25000	13000	35000	6500	11000
## [4087]	25000	35000	27000	18000	20000	8500	14000	35000	16000
## [4096]	20000	18000	140000	10000	12000	5300	11000	12000	12000
## [4105]	20000	13000	22000	15000	5400	16500	12000	8500	14000
## [4114]	15000	6000	14000	15000	37000	6500	10000	12000	12000
## [4123]	9000	60000	18000	14000	50000	17000	9000	80000	7500
## [4132]	14000	14000	10000	17000	6500	10000	22000	15000	12000
## [4141]	52000	6500	20000	25000	14000	25000	12500	12000	10000
## [4150]	17000	15500	65000	60000	45000	10500	9000	20000	20000
## [4159]	18000	12000	12000	120000	28000	6000	12500	31000	7000
## [4168]	22000	17500	14000	9500	7000	15000	15000	10000	14000
## [4177]	85000	5500	14000	10000	10000	13000	20000	25000	7500
## [4186]	200000	12000	9500	12000	10000	8000	16000	12333	9500
## [4195]	16000	20000	14000	7500	13900	5500	9000	4700	30000
## [4204]	16500	24000	9500	12000	15000	22500	32000	10000	13000
## [4213]	7000	12000	7500	15000	8000	25000	26000	15000	3000
## [4222]	12500	42000	20000	40000	45000	8500	15000	9000	14000
## [4231]	11000	10000	55000	10000	25000	27000	12000	16000	8000
## [4240]	14000	10000	150000	16000	6000	26000	13000	28000	8500
## [4249]	12500	25000	10000	12000	15000	6000	30000	18000	8500
## [4258]	7500	12000	15000	15500	20000	11000	15000	17000	20000
## [4267]	20000	12000	25000	11500	6500	10000	6000	14000	34000
## [4276]	15000	20000	9500	10000	30000	13000	45000	8000	25000
## [4285]	12000	19000	22000	15000	15000	10000	10000	7000	15000
## [4294]	9500	6500	10000	8000	3300	12000	20000	12000	20000
## [4303]	70000	10000	8500	8000	8000	13000	15500	30000	10000
## [4312]	18000	12000	9000	6000	32000	36000	17000	20000	9000
## [4321]	9500	7000	17000	19500	25000	14000	16000	15000	13000
## [4330]	12000	12000	7500	13000	52000	22000	18000	7000	16500
## [4339]	13000	6000	6000	21000	10000	12000	30000	15000	10000
## [4348]	9000	10000	8000	60000	8000	8500	7500	5000	30000
## [4357]	7500	12000	15500	26000	8000	12000	15000	10000	20000
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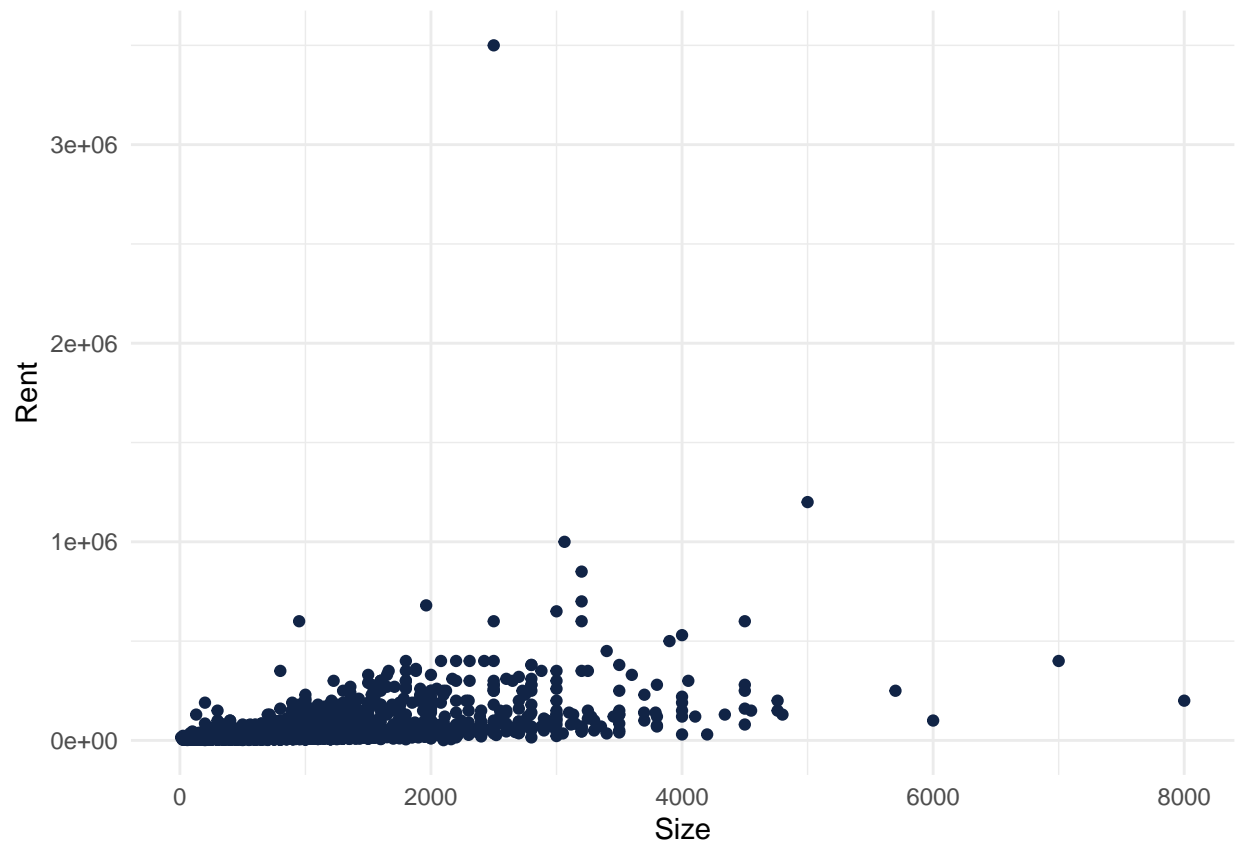
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## [4384] 18000 25000 8500 20000 12000 12500 25000 10000 18000
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## [4519] 35000 8000 45000 9000 60000 70000 9000 11000 5800
## [4528] 9000 18000 45000 55000 9500 35000 7500 25000 12500
## [4537] 22000 7500 42000 8000 20000 19000 14000 200000 18500
## [4546] 38000 67000 5000 25000 7000 10000 25000 11000 17000
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## [4564] 7500 15000 11000 23000 11000 8000 13000 17000 16000
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## [4582] 37000 6500 13000 17500 15000 4000 15000 9000 13000
## [4591] 25000 37000 25000 13000 20000 37000 40000 45000 44000
## [4600] 15000 37000 12000 8000 30000 12000 6000 9500 10000
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## [4636] 45000 5000 6000 8000 15000 10000 9000 16000 16000
## [4645] 45000 12000 14500 8000 80000 15000 15500 8000 7500
## [4654] 15000 5000 10000 16000 15000 6000 32000 22000 9000
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## [4672] 60000 26000 8000 14000 15000 15000 7000 16000 17000
## [4681] 18000 20000 18000 19000 7000 10000 9000 30000 20000
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## [4726] 9000 16000 30000 30000 13000 8000 13000 7000 5000
## [4735] 18000 35000 15000 15000 17000 25000 12000 15000 29000
## [4744] 35000 45000 15000
```

```
#transformation of variables has been done above
hist(shivani_dataset$Size)
```

**Histogram of shivani\_dataset\$Size**



```
#plotting one quantitative variable  
library("esquisse")  
ggplot(shivani_dataset) +  
  aes(x = Size, y = Rent) +  
  geom_point(shape = "circle", size = 1.5, colour = "#112446") +  
  theme_minimal()
```



*#created one scatter plot where size is on x-axis and rent is on y-axis using esquisse*

```
library(tinytex)
library(latexpdf)
```