File - main

```
D:\Python3.7\python.exe E:/PROJECT/PROJECT_PYTHON/Mini-ML-Air-BnB/com/frogobox/main.py
Name       : Muhammad Faisal Amir
NIM        : 1301198497
Class      : IFX-43-GAB
Major      : S1 Informatika 2019
University : Telkom University
----------------------------------------------------------------------
Dataset : AIR BNB
Date : 2020-04-12
----------------------------------------------------------------------
 -- Column already specified --
----------------------------------------------------------------------
['room_type', 'price', 'minimum_nights', 'number_of_reviews']
----------------------------------------------------------------------
Result Clustering : result/2020-04-12-airbnb-clustering-kmeans.csv
----------------------------------------------------------------------
       room_type   price  minimum_nights  number_of_reviews    room_level
0              0     197               3                163  room_level_1
1              0     200               3                 81  room_level_1
2              0     506               3                112  room_level_1
3              0     296               1                 18  room_level_1
4              0     244               1                 17  room_level_1
...          ...     ...             ...                ...           ...
22547          1    6000               1                  0  room_level_3
22548          1    6000               1                  2  room_level_3
22549          1    6000               1                  0  room_level_3
22550          1    6000               1                  0  room_level_3
22551          1    8600               5                  1  room_level_3

[22552 rows x 5 columns]

Drawing Cluster ...
----------------------------------------------------------------------
Result Classification : result/2020-04-12-airbnb-classificaction-knn.csv
----------------------------------------------------------------------
       room_type   price  minimum_nights  number_of_reviews    room_level
0              1      20               3                  2  room_level_2
1              0      45               2                 47  room_level_2
2              0     110               5                  4  room_level_2
3              0      65               2                 81  room_level_2
4              0     199              30                  2  room_level_1
...          ...     ...             ...                ...           ...
6761           1      20               1                  5  room_level_2
6762           1      65               2                  2  room_level_2
6763           0      84               3                 37  room_level_2
6764           0     100             390                  8  room_level_2
6765           0     349               3                  4  room_level_1

[6766 rows x 5 columns]

----------------------------------------------------------------------
Result Confusion Matrix :
----------------------------------------------------------------------
[[ 149    2    0]
 [   9 6595    0]
 [   0    0   11]]

----------------------------------------------------------------------
Result Classification Report :
----------------------------------------------------------------------
              precision    recall  f1-score   support

room_level_1       0.94      0.99      0.96       151
room_level_2       1.00      1.00      1.00      6604
room_level_3       1.00      1.00      1.00        11

    accuracy                           1.00      6766
   macro avg       0.98      1.00      0.99      6766
weighted avg       1.00      1.00      1.00      6766


Process finished with exit code 0
```