WAP to implement following operations on the given data

1. Find and print the # of state and their names (unique).
2. Find and print the # of city and their names for each state.
3. Find and print the # of places and their names for state-city combination.

s = """karnataka bangalore lalbagh

tamilnad kanyakumari vivekananda\_rock

kerala tiruvandapuram padmanabha\_temple

karnataka mysore brindavan\_gardens

karnataka hassan shravanabelagola

karnataka bangalore ISKCON

karnataka hassan halebeedu

tamilnad chennai ashtalakshmi\_temple

karnataka hampi purandara\_mantapa

karnataka mysore ambavilas\_palace

kerala tiruvandapuram zoo

karnataka hassan belur

tamilnad chennai valluvar\_kootam

karnataka hampi vijaya\_vittal\_temple"""

a) Find and print the # of state and their names (unique).

Output: # of states ==> 3

Unique states are==> karnataka kerala tamilnad

b) Find and print the # of city and their names for each state.

Output:

karnataka ==> 4 tamilnad ==> 2 kerala ==> 1

karnataka ==> bangalore hassan hampi mysore tamilnad ==> chennai kanyakumari kerala ==> tiruvandapuram

c) Find and print the # of places and their names for state-city combination.

Output: karnataka hassan ==> 3 mysore ==> 2 bangalore ==> 3 hampi ==> 3 kerala tiruvandapuram ==> 2 tamilnad kanyakumari ==> 2 chennai ==> 3