colors = ['Red', 'Blue', 'Green', 'Yellow']

states = ['Andhra', 'Karnataka', 'Tamilnadu', 'Kerala']

neighbors = {}

neighbors['Andhra'] = ['Karnataka', 'Tamilnadu']

neighbors['Karnataka'] = ['Andhra', 'Tamilnadu', 'Kerala']

neighbors['Tamilnadu'] = ['Andhra', 'Karnataka', 'Kerala']

neighbors['Kerala'] = ['Karnataka', 'Tamilnadu']

colors\_of\_states = {}

def promising(state,color):

for neighbor in neighbors.get(state):

color\_of\_neighbor = colors\_of\_states.get(neighbor)

if color\_of\_neighbor == color:

return False

return True

def get\_color\_for\_state(state):

for color in colors:

if promising(state, color):

return color

def main():

for state in states:

colors\_of\_states[state] = get\_color\_for\_state(state)

print(colors\_of\_states)

main(