Practical No. 08

Q.no.1

Code:-

import itertools

variables = ["A", "B", "C"]

colors = ["Red", "Blue", "Yellow"]

all\_assignments = itertools.product(colors, repeat=len(variables))

def valid(i):

A, B, C = i

return (A != B) and (B!=C) and (A!=C)

solutions = []

for i in all\_assignments:

if valid(i):

solutions.append(dict(zip(variables, i)))

print("Valid colorings of the map:")

for sol in solutions:

print(sol)

Output:-

