## **Formal Methods**

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Section: A

Assignment: 04

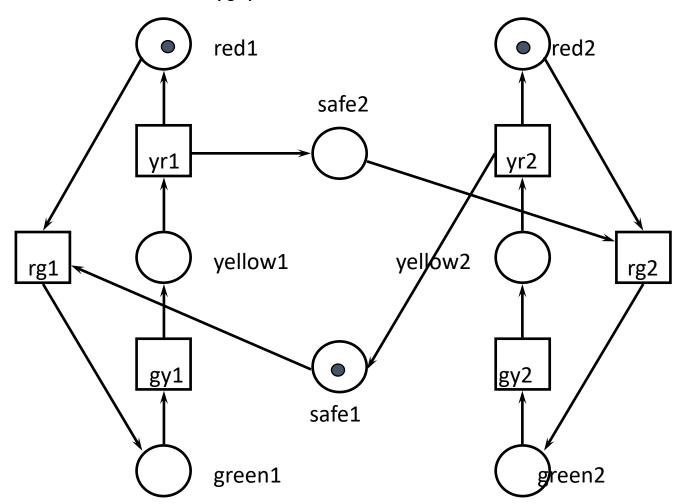
**Date:** 15-06-2023

Question: 01

A Petri net model of two safe and fair traffic lights is given below:

1 Generate the reachability tree of the model.

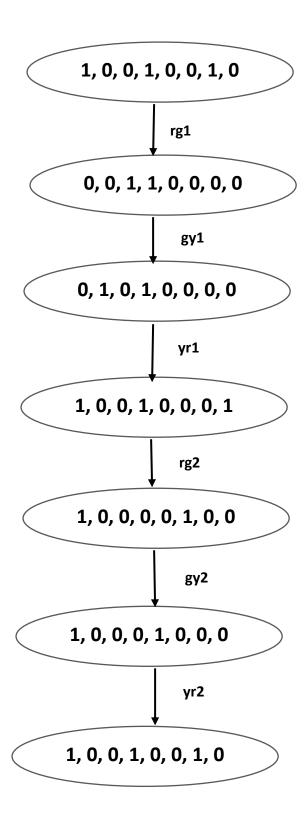
2 Generate the reachability graph of the model.





## **Reachability Tree:**

red1, yellow1, green1, red2, yellow2, green2, safe1, safe2



## **Reachability Graph:**

red1, yellow1, green1, red2, yellow2, green2, safe1, safe2

