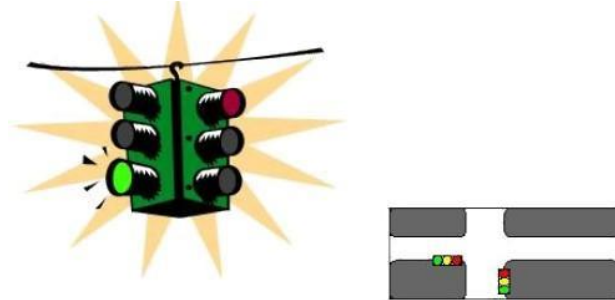


S. V. National Institute of Technology
Surat Software Engineering
Tutorial 5

1. Suppose there are two traffic lights (each has red, green, and yellow lights) at a road junction. Model the behavior of these two lights using Petri Nets.



Note that the characteristics of the combined system (of two lights) are:

- They are mutually exclusive
- They should alternate

Hint: They are not allowed to signal green at the same time.

2. Explain the following categories of feasibility study with an example.
 - a. Financial feasibility
 - b. Technical feasibility
 - c. Resource and time feasibility
 - d. Risk feasibility
 - e. Social/legal feasibility
3. Describe and define Petri Nets. Also mention its advantages and applications.

NOTE: Submit your answers in a single pdf. The filename of the pdf must be your roll number. Draw block diagrams whenever required.