

**Computer Engineering Department, SVNIT, Surat.**

**B. Tech. - IV (CO) 7th semester**

**Course: SOFTWARE ENGINEERING (CS-I)**

**(CO401) Lab Assignment – 5**

1. There are four philosophers sitting around a round table. There are forks on the table, one between each pair of philosophers. The philosophers want to eat spaghetti from a large bowl in the center of the table. Unfortunately the spaghetti is of a particularly slippery type, and a philosopher needs both forks in order to eat it. The philosophers have agreed on the following protocol to obtain the forks: Initially philosophers think about philosophy, when they get hungry they do the following:

- Take the left fork
- Take the right fork and start eating
- Return both forks simultaneously, and repeat from the beginning.

Build a SPIN model for this scenario.

**Submission:** A single (doc/pdf) file which will contain your code and screenshots of generated outputs (if any). The name of the file will be assignment

number\_yourid (e.g.,A6\_U18XXXX).