Computer Engineering Department, SVNIT, Surat.
B. Tech. - IV (CO) 7th semester
Course: SOFTWARE ENGINEERING (CS-I) (CO401)
Lab Assignment – 4

Based on Spin/Promela

1. Write a program to create a process that prints "Hello World". Use run in init process to instantiate it and _pid to print the ids of all create processes.

2. Model Euclid's algorithm for Greatest Common Divisor.

3. Create a process factorial(n, c) that recursively computes the factorial of a given non-negative integer "n".

4. Create a Promela model for producer-consumer problem with buffer size 5.

   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., A4_U17XXXX).