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Problem 1 – 2 : Solution for Problem 1 and 2 attached as a pdf file in zip. The name of the file is problem1_problem2.pdf

Problem 3- Coded solution in this problem added as problem3.c file and 2 screenshots in the zip file belongs to this problem. For this problem in Part A we need to trigger race condition for this purpose we have trigger_race_condition function to implement. For this function we did not implement mutual exclusion etc. so this increased risk of race_condition because threads are not waiting for each other. There is no lock to ensure mutual exclusion. But when we define lock and unlock then threads must wait for each other so when one of them gets the lock others cannot enter their critical section.

Problem 4 – Explanations and solutions for problem 4 are in the problem_4.pdf file. I wrote on a paper and then scanned it.