**Instruction:**

1. **Plagiarism will be checked after the exam. If found, all involved students will get zero.**
2. **After completion, you need to submit your code via Google Form. Use following link**

**https://docs.google.com/forms/d/e/1FAIpQLSdrcPHZAghjGGo2lrNPUTLy56hF3CQ1zPg3YHS7wYJXy8-Bvw/viewform?usp=sf\_link**

1. **The file name of your program should be your roll underscore test4 with .c extension. For example, if the roll number is 2202222, the file name should be “2202222\_test4.c”**
2. **Mark will be deducted for every minute delay in submission.**
3. **Submission time 11:00 AM, 1st April.**

Write a program to do the following take a sentence, convert lower case to upper case and upper case to lower case using n threads and then display the result using the following method. The sentence and the value of n will be taken from the user. It will be stored in a character array named Input. The result will be written into another array called Output. The program will convert the alphabets and converts lower case to upper case and upper case to lower case using thread. The main program creates n threads. Each thread will take a letter from Input array, convert the case and then write it into the same location of Output array. When a thread finishes and it will take another letter and do the same. When all the letters are processed the threads will finish. The main program then prints the converted string. Use appropriate synchronization method such that the result comes correct for all the inputs.