Birla Institute of Technology & Science, Pilani, K. K. BIRLA Goa campus
Operating Systems
First Semester 2013-2014
Tutorial 7
Basics of Multi-Threaded Programming

Question#A.

To search an element from the array of integers using Multithreaded programming concept

1. Declare a constant on some MAXSIZE (as size of an array).

2. Store the data in an array same as its index (so that there are no repeated entries).

3. Read an element to be searched from the user (key).

4. Create two threads to search the key element simultaneously. One thread should start searching from left index (from zero) and the other should start searching from right index (from MAXSIZE-1).

5. The thread which finds the key should return the index of key to the main thread. Once the key is found, both the threads should stop searching further.

6. The main thread should display whether the key element is found or not found. If the key is found then display which thread found it and at which index.