Week 3 Assignment 3

The due date for submitting this assignment is: 30/07/2023, 11:59:59 IST

1. Which of these features can help in improving performance in a thread-parallel program?
   - a. False sharing
   - b. Race condition
   - c. Premature binding
   - d. None of the above

2. Which of the following is correct?
   - a. production
   - b. Production
   - c. Production
   - d. None of the above

3. Number of threads in a parallel program is specified by
   - a. execution command
   - b. number of processes in the SMP
   - c. runtime function
   - d. specifying it using shell command: export

4. A private variable, B, is initialized before the parallel region as $B=0$. What will be the value of $B$ inside the parallel region?
   - a. garbage
   - b. T
   - c. T
   - d. None

5. All variables have a data-sharing attribute of shared by default, so all threads can access all variables (except parallel loop counters).
   - a. True
   - b. False

6. False sharing may arise during a reduction clause
   - a. True
   - b. False

7. In a loop construct, all threads execute the region sequentially
   - a. True
   - b. False

8. Which of these classes can map iterations to threads?
   - a. Schedule
   - b. Service
   - c. Parallel
   - d. Private

9. Which of the functionality can be obtained by calling omp_set_num_threads?
   - a. Manually thread schedules over threads in a parallel region
   - b. Multiple threads share same private variable
   - c. One specific thread in a parallel region schedules into many threads in the nested loop
   - d. Each of the threads in a parallel region, which encounters the nested loop schedules into many threads.