

- 1) Introduction to OpenMP and Hello world program.
- 2) Use of following OpenMP Run time library calls in a program.
(select a valid program. Don't use simple computations to show the use of following library calls)
 - a. `void omp_set_num_threads(int num_threads)`
 - b. `int omp_get_num_threads(void)`
 - c. `int omp_get_max_threads(void)`
 - d. `int omp_get_thread_num(void)`
 - e. `int omp_get_num_procs(void)`
 - f. `int omp_in_parallel(void)`
 - g. `void omp_set_dynamic(int dynamic_threads)`
 - h. `int omp_get_dynamic(void)`
 - i. `void omp_set_nested(int nested)`
 - j. `void omp_get_nested(int nested)`
 - k. `void omp_init_lock(omp_lock_t *lock)`
 - l. `void omp_destroy_lock(omp_lock_t *lock)`