**DEPARTMENT OF INFORMATION TECHNOLOGY, NITK SURATHKAL**

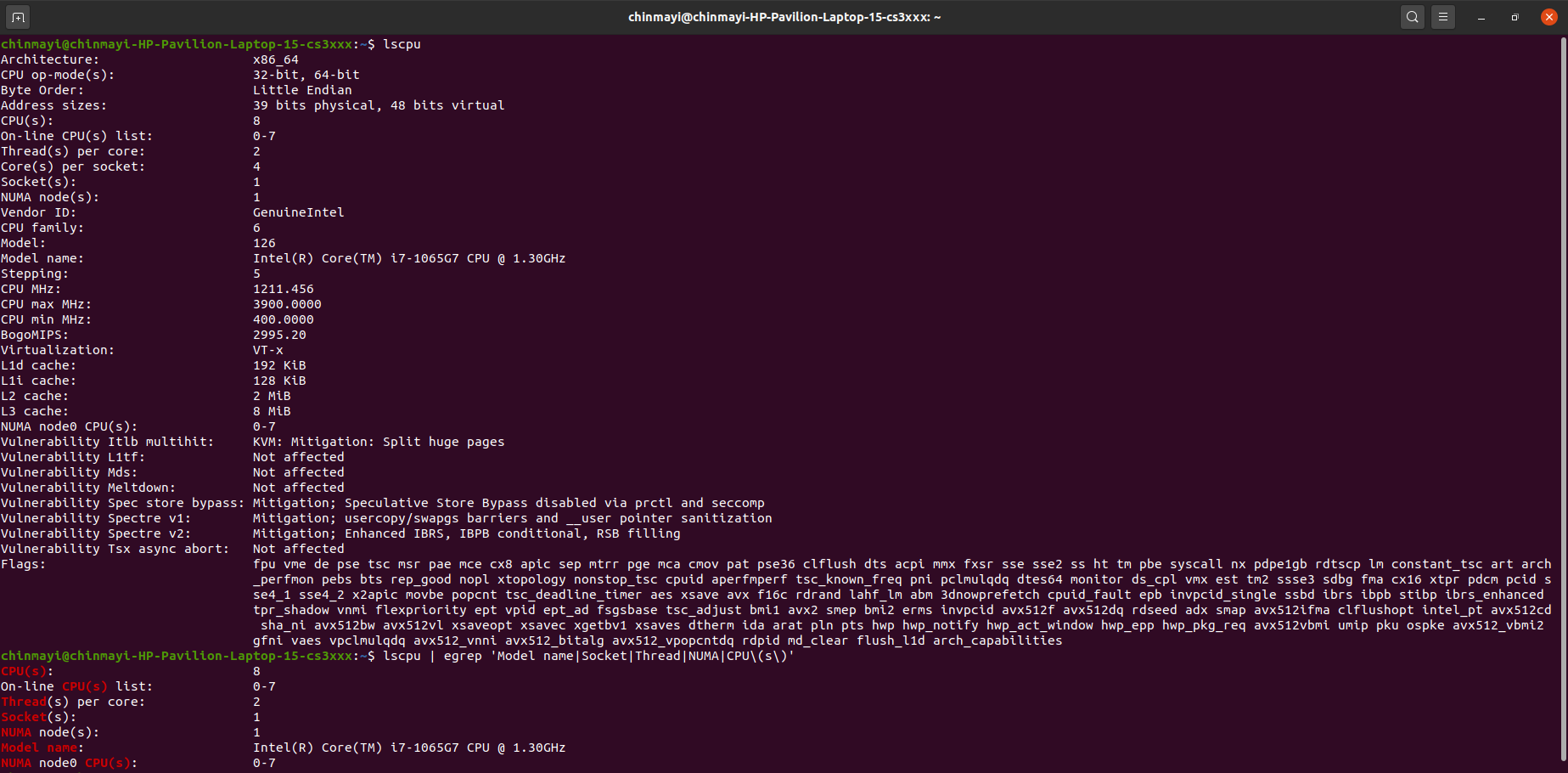
**Parallel Computing**

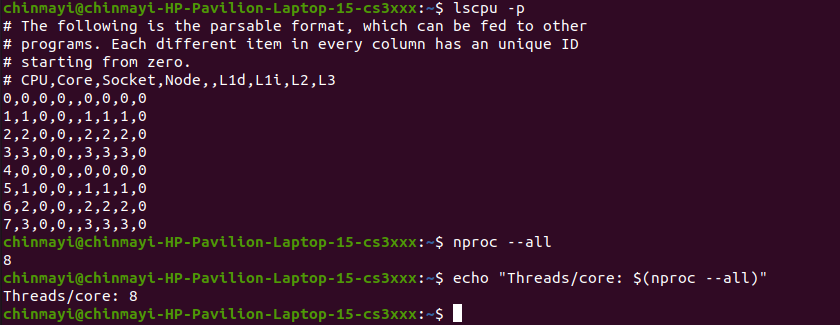
**LAB 1**

**Name:** Chinmayi C. Ramakrishna

**Roll No:** 181IT113

**CPU Details:**

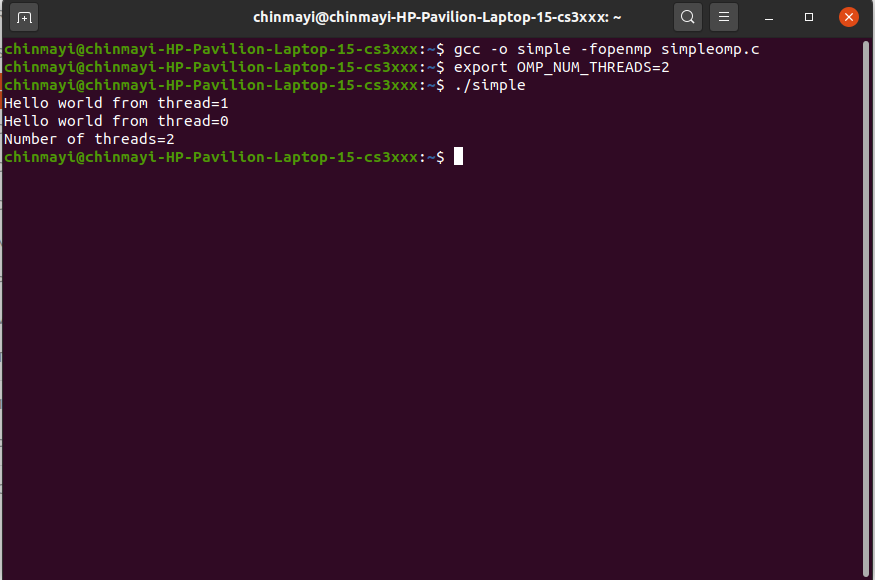




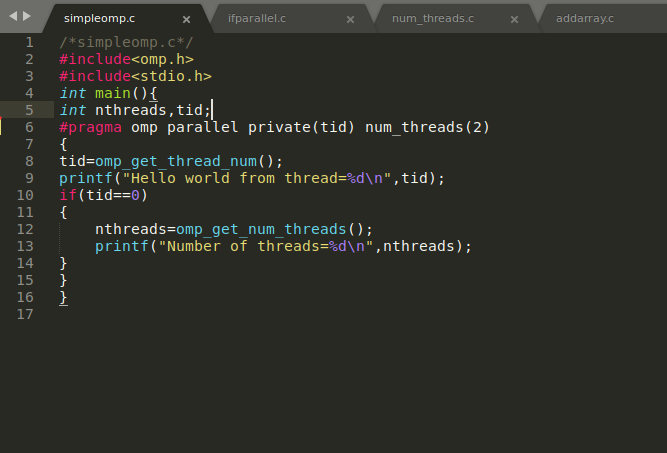
**1.Write a C/C++ simple parallel program to display the *thread\_id* and**

**total number of threads.**

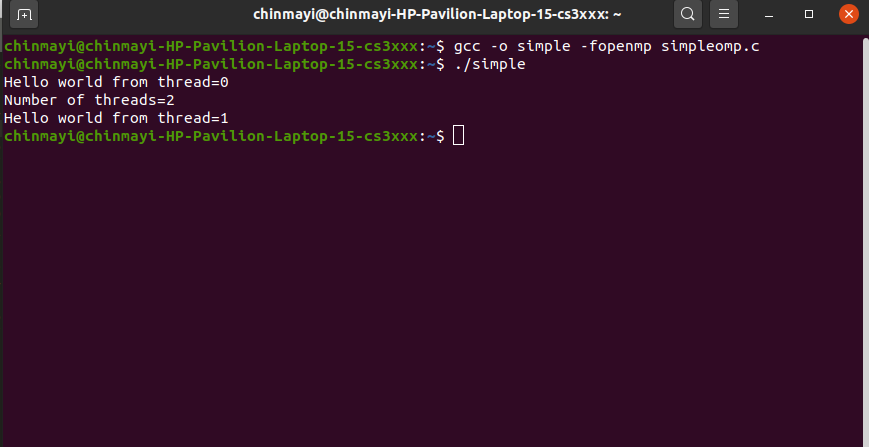
1. **Using OMP\_NUM\_THREADS**



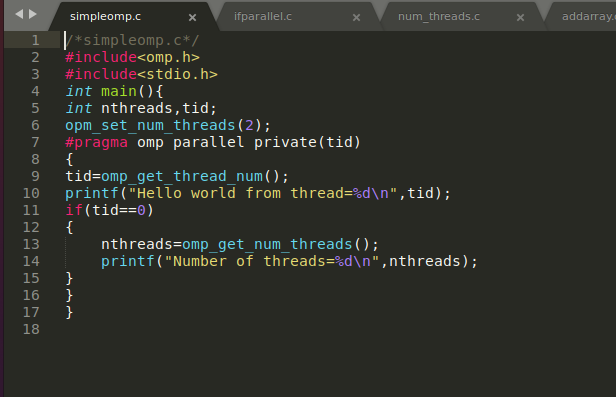
1. **Using num\_threads() method**



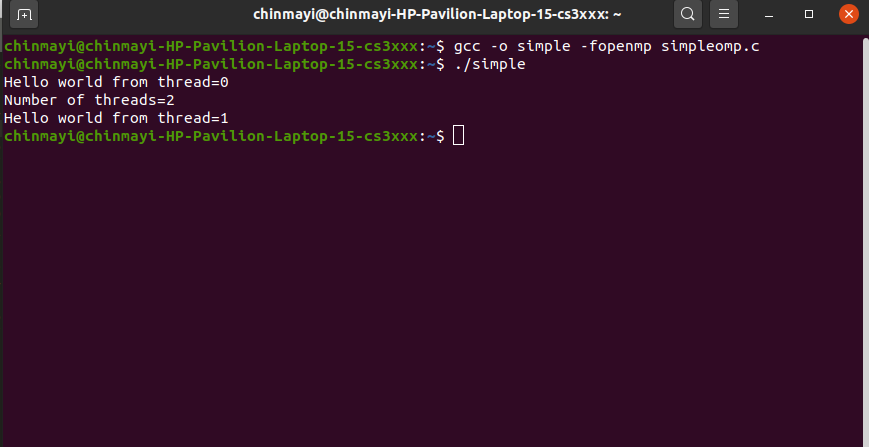
**Output:**



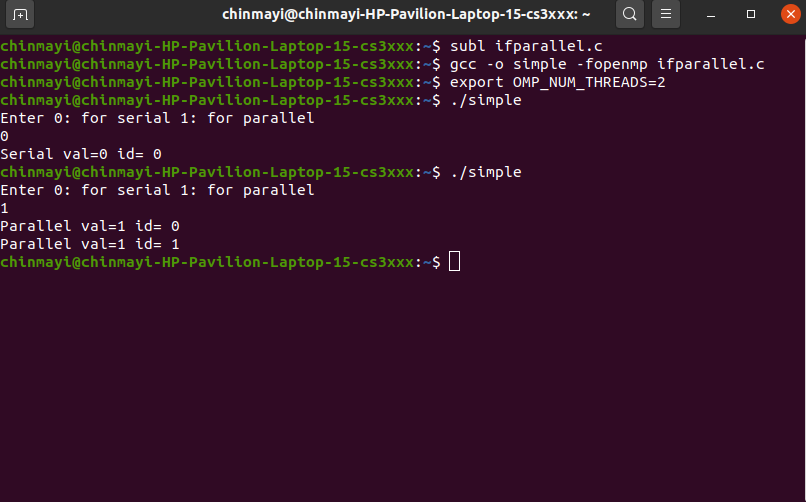
1. **Using omp\_set\_num\_threads() Method:**



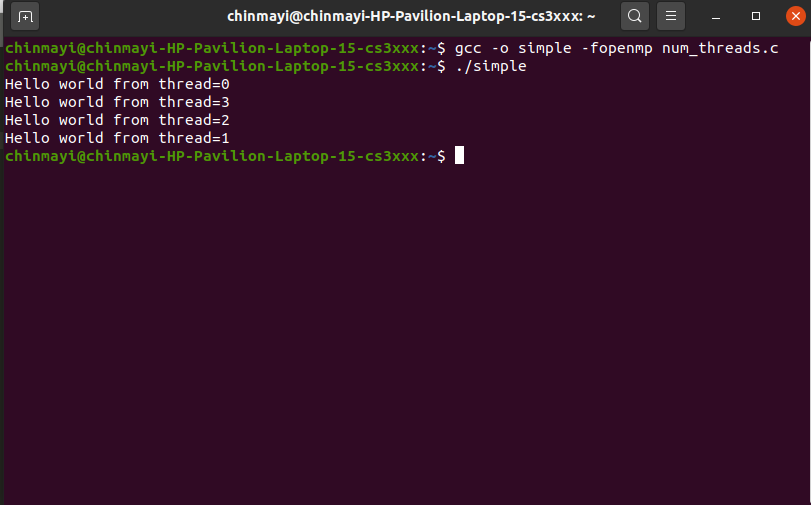
**Output:**



**2. ifparallel.c**



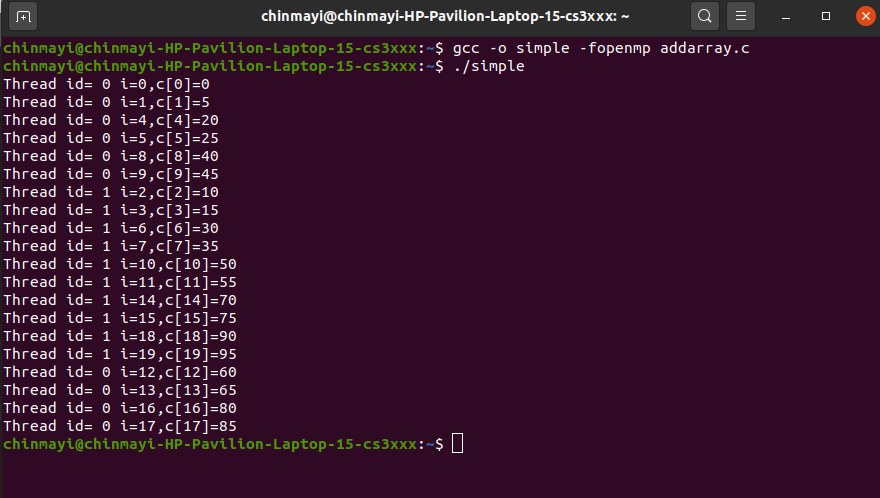
**3. num\_threads.c**



**4.Write a C/C++ parallel program for adding corresponding elements of two arrays.**

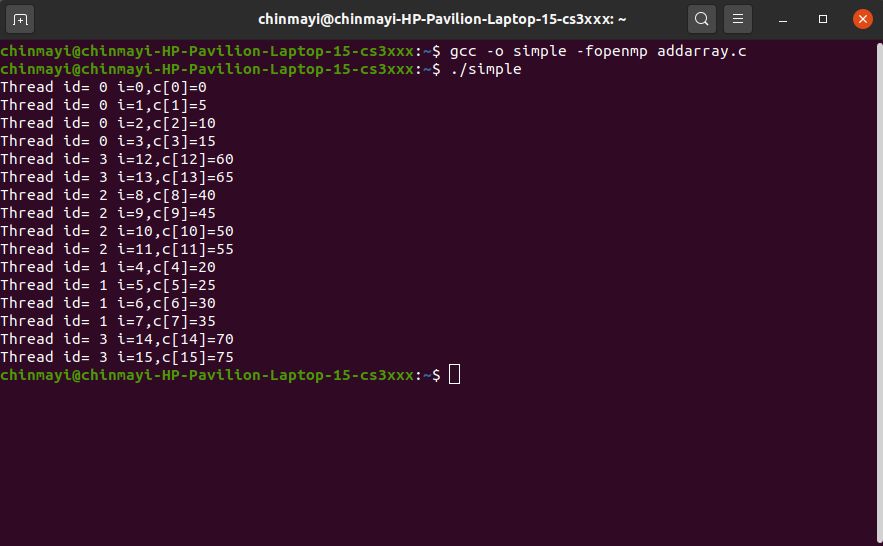
**a. Chunk=2 n=20**

**Each thread id has 10 i values.**



**b. Chunk= 4 n=16**

**Each thread id has 4 i values.**



**c. Chunk = 5 n= 15**

**Each thread id has 5 i values.**

