NAME: MOUNVI PODAPATI REG. NO: 19BCE0396

SLOT: L15 + L16

FACULTY: PROF. DEEBAK B.D DATED: 1ST SEPTEMBER 2021

# LAB ASSESSMENT – 3

### AIM:

Write a simple Open MP program to demonstrate the use of pattern generation in schedule clause

\* \* \* \* \* \* \* \* \* \* \* \*

a. Statically assign the loop iterations to threads

b. Dynamically assign one iteration to each threads

(a)

# **SOURCE CODE:**

### **EXECUTION:**

**(b)** 

# **SOURCE CODE:**

### **EXECUTION:**

### **RESULTS:**

From this experiment, I was able to understand how threads are scheduled in OpenMP. There were two type of threads which were used in the experiment – *static* and *dynamic*.

- (a) In case of static scheduling, each thread is assigned chunk of iterations in round robin format. All iterations are equally divided among the threads. The integer specified as the  $2^{nd}$  argument will allocate chunk number of contiguous iterations to a particular thread.
- (b) In case of dynamic scheduling, each thread is assigned with a chunk of threads, then when each thread completes its iterations, it is assigned with the next set of iterations. The integer specified as the  $2^{nd}$  argument will allocate chunk number of contiguous iterations that are allocated to a thread at a time.