CSE4001 - Parallel and Distributed Computing, Fall 2019 Vellore Institute of Technology Instructor: Prof Deebak B D – SCOPE

Lab report

Title of Lab: Section Clause OpenMP

Assessment #: 6 Date: 02|09|2019

Author's name: Gagan Deep Singh Registration ID: 17BCI0140 Lab section: Friday L59 + L60

Aim: Write a simple OpenMP program to demonstrate Arithmetic Operation using Section Clause.

SOURCE CODE:

```
#include<stdio.h>
#include<omp.h>
int main(void)
    int a = 9, b = 6, sum, diff, mul, div;
    #pragma omp parallel
        #pragma omp sections
            #pragma omp section
                printf ("id = %d, \n", omp_get_thread_num());
                sum = a + b;
                printf ("sum = %d, \n", sum);
            #pragma omp section
                printf ("id = %d, \n", omp_get_thread_num());
                diff = a - b;
                printf ("diff = %d, \n", diff);
            #pragma omp section
                printf ("id = %d, \n", omp_get_thread_num());
                mul = a * b;
                printf ("mul = %d, \n", mul);
            #pragma omp section
                printf ("id = %d, \n", omp_get_thread_num());
                div = a / b;
                printf ("div = %d, \n", div);
```

```
}
}
```

EXECUTION: