Experiment 1

**Aim: To implement basic OpenMP programming model using thread and environment variables.**

Assignment 1: Write a Program in OpenMP to print Hello World using 4 threads.

**#include <stdio.h>**

**#include <omp.h>**

**int main()**

**{**

**omp\_set\_num\_threads(4);**

**#pragma omp parallel**

**{**

**int tid = omp\_get\_thread\_num();**

**printf("Hello World from thread %d\n", tid);**

**}**

**return 0;**

**}**

**Output** **of Assignment 1**: (write in right side of lab manual)

Hello World from thread 0

Hello World from thread 1

Hello World from thread 2

Hello World from thread 3

Assignment 2: Write a Program in OpenMP to set maximum thread ID.

Assignment 3: Write a Program in OpenMP to print Hello World where number of threads is specified by users.