

## ASSIGNMENT 4 - SORT MERGE JOIN & HASH JOIN

### System Configuration :

**Processor** - Intel(R) Core(TM) i3-8145U CPU @ 3.90GHz

**Processor Count** - 4

**RAM Size** - 4 GB

**Memory Technology** - DDR4

**HDD Size** - 1TB

**EXPERIMENT 1** - Varying main memory size and calculating the execution time for sort-merge join algorithm.

**Number of records in each relation = 50,0000**

**Record size in each relation = 5**

**Block size = 100 records**

Main Memory Block( 1 block = 100 tuples)	Time Taken(in seconds)
50	11.04
60	10.29
70	9.61
80	8.58
90	8.67
100	8.64

**Graph :**

