DATABASE SYSTEMS [ASSIGNMENT 2]

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System Configuration:

Processor: Intel(R) Core(TM) i5-10300H CPU @ 2.50GHz
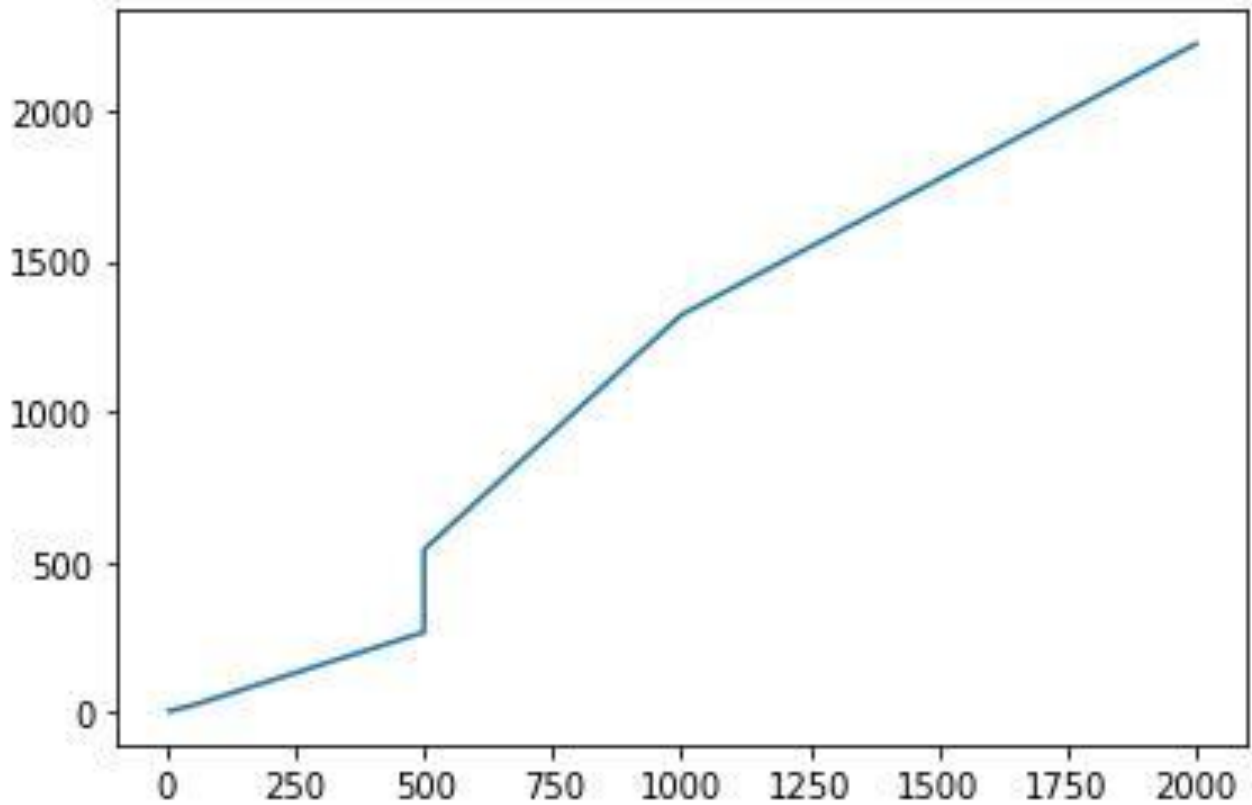
Memory: 8 GiB
Hard Disk: 1 TB
OS: Ubuntu 20.04.1 LTS [64 bit]

FILE SIZE(MB) VS TIME (sec)

Fixed Memory Allocated: 100 MB

File Size	Time(sec)
5 MB	4.86
50 MB	23.40
500 MB	266.75
1 GB	540.89
2 GB	1320.79
3 GB	2220.97

X AXIS: *File Size (In MBs)*

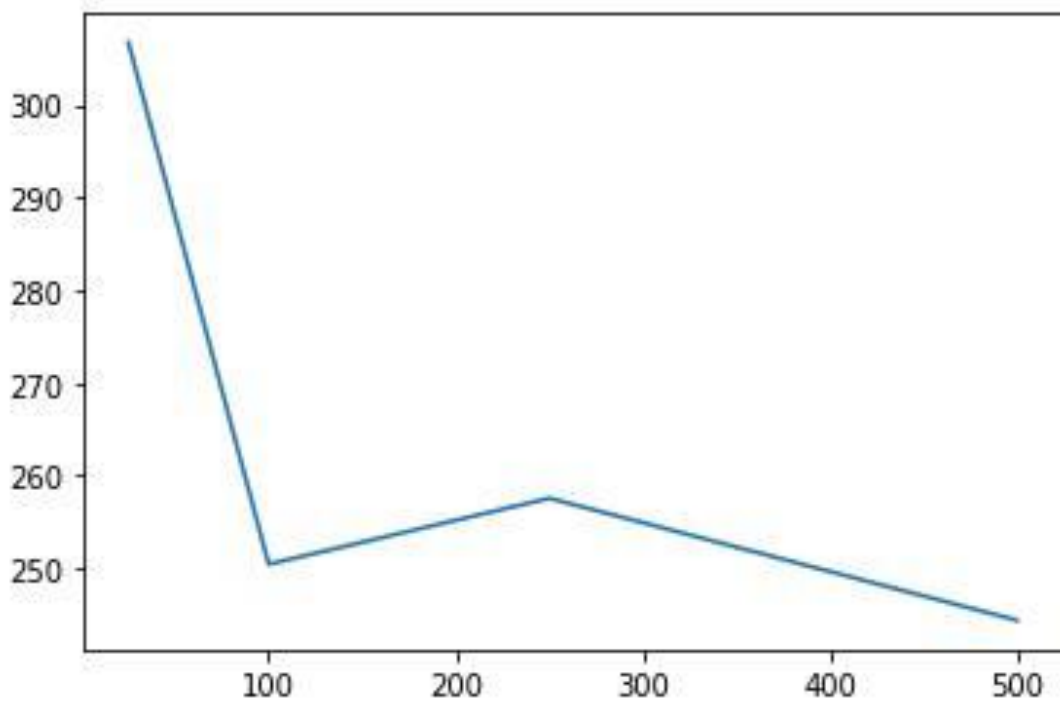**Y AXIS:** *Time (In seconds)*

As we are increasing file size, time increases because more no of subfiles generated.

MAIN MEMORY(MB) VS TIME(sec)

Fixed File Size: 500 MB

Main Memory	*Time(sec)*
25 MB	306.74
100 MB	250.45
250 MB	257.57
500 MB	244.50

X AXIS: *Main Memory Size (In MBs)*

Y AXIS: *Time (In seconds)*

As we are increasing main memory size, time decreases as less number of subfiles are generated.