**CS 436 In Class Practice #1 22.02.2024**

Group #: 20

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| **Group Member (Name, Surname)** | | PHYSICAL MACHINE | | | | VIRTUAL MACHINE | | | | Comments to the instructor (if necessary) |
|  |  | **OS** | **CPU** | **RAM** | **HD** | **OS** | **CPU** | **RAM** | **HD** |  |
| Oktay | Çelik | Fedora 39 | 6 Core 12 Threads | DDR5  8GB | 256 GB | Ubuntu Server 22.04.3 | 2 Threads | 1024 M | 20GB |  |
| Muammer Tunahan | Yıldız | Windows 11 | 4 Core  1.8GHz |  |  | Ubuntu  Desktop  22.04.3 | 2 core | 1024MB | 20GB |  |
| Yağız | Gürdamar | MacOS | 1,4GHz | 8GB | 500GB | Ubuntu Server 22.04.3 | 2 core 1.4GHz | 4Gb | 20GB |  |
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**NOTE:** Every member should submit this file with screenshots being taken on their own systems.

**Part 1:**

Load your server with computation. You can write a simple python code to create synthetic load.

Paste the screenshot of top command when a **single** synthetic CPU bound load gets executed.

(SS should belong to your own system!)

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| *Paste your screenshot here.*  metin, ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu |

**Part 2:**

Screenshot of top command when two synthetic CPU bound load gets executed.

(SS should belong to your own system!)

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| *Paste your screenshot here.*  metin, ekran görüntüsü içeren bir resim  Açıklama otomatik olarak oluşturuldu |

**Part 3:**

Please write a paragraph collaboratively as a group that explains the above given results (Max 100 words)

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| We have managed to create a CPU intensive task using a python script. This script repeatedly checks the integers in a range and prints the prime ones. This is an intensive task as it both uses branching and ALU operations. The result given in the screenshots shows the intensity of the operations. The single program - single thread scenario pins down a thread making the OS run slower. Two program brings the OS into an unresponsive state. |