**Smart Classroom Project**

**Execution Time Comparison**

**Time Comparison of Gray Scale Filter in python and C#**

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| **C#** | **Python** |
| Time Execution of Filter = 107.35 (secs)  = 1.789 (mins) | Time Execution of Filter = 85.058 (secs)  = 1.417 (mins) |
| Time Execution for write(save) images  = 25.632(secs)  = 0.427(mins) | Time Execution for write(save) images  = 10.049(secs)  = 0.17(mins) |
| Total time of execution of filter + save  =132.982(secs)  =2.216(mins) | Total time of execution of filter + save  =95.107(secs)  =1.585(mins) |
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**Time Comparison of Negative Filter in python and C#**

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| **Python** | **C#** |
| Time Execution of Filter = 77.316(secs)  = 1.288 (mins) | Time Execution of Filter = 90.66 (secs)  = 1.511(mins) |
| Time Execution for write(save) images  = 34.2(secs)  = 0.57(mins) | Time Execution for write(save) images  =26.946 (secs)  = 0.449(mins) |
| Total time of execution of filter + save  =111.19 (secs)  = 1.85 (mins) | Total time of execution of filter + save  =117.917(secs)  =1.965(mins) |
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**Time Comparison of Sepia Filter in python and C#**

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| **C#** | **Python** |
| Time Execution of Filter = 83.981 (secs)  = 1.399(mins) | Time Execution of Filter = 62.28 (secs)  = 1.038 (mins) |
| Time Execution for write(save) images  = 21.66(secs)  = 0.361(mins) | Time Execution for write(save) images  = 25.991(secs)  = 0.433(mins) |
| Total time of execution of filter + save  =105.78(secs)  =1.763(mins) | Total time of execution of filter + save  =88.082(secs)  =1.468(mins) |
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