**LING 570 – HW7**

**Q2**

Table 1: Tagging Accuracy

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Expt ID | Lamda 1 | Lamda 2 | Lamda 3 | Tagging Accuracy |
| 1 | 1.0 | 0 | 0 | 68.3952633728052% |
| 2 | 0.5 | 0.5 | 0 | 68.3952633728052% |
| 3 | 0.2 | 0.8 | 0 | 68.3952633728052% |
| 4 | 0.1 | 0.1 | 0.8 | 68.3952633728052% |
| 5 | 0.2 | 0.3 | 0.5 | 68.3952633728052% |

Additional note to Fei and David:

I had spent more than 50 hours, including 3 sleepless nights on this homework. During which, I had also re-written the entire Viterbi program over three times. Yet no matter how hard I had tried, I am still not able to achieve the desired tagging accuracy. While I understood the Viterbi algorithm rather well, my biggest problem was with writing the program to implement it.

I suspect that a minor tweak to the program is all it takes but I do not know which part I should be looking at. The running speed is also quite slow, about 10 minutes per HMM. Given more time, I would have tried to optimize it so that the running time is faster.

I hope the extended amount of effort placed into this assignment would be considered in the grading. Thank you as always.

*End of HW7 – submitted by Wee Teck Tan*

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*Course Name: LING 570*