Journal of Aravind Srirangam for Fall 2006

Week 1,September 7–13

We had our first task of writing our Mathematical autobiography. I had gone through the documents given to our group, I had collected all the data necessary for learning PCTEX. After finishing my rough draft of my autobiography I encountered an error while implementing it in LaTeX because I used a wrong command.

week 2, September 14–21

We had two group meetings. On sunday meeting we discussed about the algorithm and the problem. I wrote my rough draft of the algorithm and presented it in the next meeting and we came to a conclusion on the final algorithm. I edited the mathematical expressions and cross checked the final draft of the algorithm.

Week 3, September 22 – 28

We got our algorithm back which required some modifications and corrections based on the critiques from Adrian and Dr.Martin. In the team meeting we had gone through the plan of Adrain and his team and discussed about it. We included a testing module to verify the plan and also another mathematical calculation module we missed in our previous plan. I started reading about Python and I need to spend more time on it.

week 4, September 29 – October 5

We had our modules distributed among our group. I made a list containing 'error', ' filename', ' k' and sorted them by decreasing order of ' error' and made a *' ekf_list.py'* list in Python. I made a *wt_mu* subroutine which computes the $\tilde{\omega}$, $\tilde{\tau}_p$. I have encountered syntax errors while doing these modules.

week 5, October 6 – 12

Dr.Martin discussed about the entire program and asked about any corrections to be made in the modules. I made some changes to my autobiography which needed some corrections. I looked through the code and tried to understand the entire program.

Week 6, October 13 – 19

This week Dr.Martin asked us to run the code and experiment with all the modules. Initially I encountered some problems in running the code, but soon I was able to understand the code and was able to run the code successfully. I felt that I need to spend more time in learning python.

Also I went through the handout which Dr.Martin has given us. I could not understand it completely.

Week 7, October 20 – 26

This week I searched for the journals, given by Dr. Martin, on the internet. I had trouble providing correct quieres for search engines. The first paper was on chemical physics. The other paper was 'Asymptotics for the Approximation of Wave Functions using Exponential Sums'. I learnt about differnt types of search techniques to find a paper on the web.

The task for next week will be to present one of these two papers.

Week 8, October 27 – November 2

I had gone through both papers and decided to give presentation on 'Asymptotics for the Approximation of Wave Functions using Exponential Sums'. I had gone through different papers to understand it.

Week 9, November 3 – 9

I prepared a presentation on the paper and I tried to include all the mathematical calculations contained in the paper.

Week 10, November 10 – 15

I presented my paper. I got a constructive feed back from my coleagues. They suggested me that if I had used a laser pointer the presentation would have been good. They pointed out that I did not have a good body language while giving the presentation. The goal for me was to work upon the suggestions and improve my presentaion skills. It was a good experience giving a presentation.