Individual Report – Sahil Palnitkar

**1**    **Name and Group Members:**

·         Name: Sahil Palnitkar

·         Group Members: Anthony Nguyen, Simon Yao

**2**    **Parts of Design I did Alone:**

·         ALU

·         PC Increment Logic

·         OPCodes used for matrix addition

·         ROM Datafile

·         Problem 3

**3**    **Advantages/Disadvantages**

·         Advantage:

Allows teamwork to manage time and complete work based on deadlines.

·         Disadvantage:

A lot of the project works of other problems or previous labs. Every person in the group has completed these labs in a different way and it is hard to understand everyone’s method of solving a problem and combining it.

**4**    **Design Preference/Improvements**

·         Superior:

Most of the basic circuits were very similar when brainstorming. Every team member worked on separate problems in the lab and helped the others with their problems. This meant that each problem had an individual flair to it and did not have a competing design made by another person. So, no design can be flagged as superior. However, there were common ideas on how to implement certain parts of the circuits such as implementing a load function for the counter in problem 1 to make the design better.

·         Improvements:

Problem 2 was not very clear, so there can be many improvements made in the design for problem 2. The enabling switches for each of the modules can be implemented as an encoder which only enables specific modules for each function.