**In Class Exercise 4**

**CSCI 6307**

**Dr. Abraham**

Your Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ date:

Find partner (a different one) and work on this.

1. Write essential MIPS code necessary for Result=num1 + num2 – num3. Please show how to read a number including prompt, save it to RAM, read it from RAM to a register, perform the calculations and write the result in the RAM.
2. Find the number of dies per 300 mm (30 cm) wafer for a die that is 1.5 cm on a side.
3. Amdahl’s law is perhaps the most used law by Computer Architects. It is used for calculations on performance when a new feature is added. Explain why, using an example calculation.