**Josh Vetter**

**IT 225**

**SUH**

**Compare 2 numbers**

**Deliverable: JAS file (\*.jas) and a short text file describing the program (200 words)**

Compare.jas makes use of special commands: IFEQ, IFLT, and IF\_ICMPEQ. The program takes 2 input numbers and initially subtracts the first from the second. Then a series of branches are made possible depending on the first number being greater than, less than, or equal to the second number. If the subtraction of the 2 numbers equals zero then the program branches to IFEQ EQUAL method which prints out the assignments asked for “same as” statement with the 2 number that are the same. If the subtraction of the 2 numbers is negative then we know the second number was larger than the first and we branch to SECONDLARGER method which takes the reverse subtraction to obtain a positive difference that can be outputted to the user. The same happens if the first number is larger, but it has no branch because it is used as the “else” parameter and will get a positive difference by subtracting the second from the first.