**MSU CSC 320, Fall 2015**

**Exercise 8. MIPS exercise**

**Name:**

This exercise will cover programming on floating point numbers, random numbers and syscall.

Use the provided file [\\eccentric\Class\csc320\001\\_download\Exer8.asm](file:///\\eccentric\Class\csc320\001\_download\Exer8.asm)

This exer8.asm defines that in your program, you need to create an array which has 15 floating numbers, 3 rows and 5 columns (these are all single precision floating point numbers).

Write and test a MIPS assembly language program to implement the following tasks

* The starting address of floating point numbers is arrayf, you produce random floating numbers to fill in the arrayf. You need to refer to syscall to produce random float.
* Print out the floating numbers located in the arrayf. (loop, also refer to the syscall and print the float numbers)
* Calculate the sum of every column, print out the sum of each column(five columns), note: index every element.
* Calculate the total sum of 15 elements in this arrayf.

 Save your successful program to [\\eccentric\Class\csc320\001\YourPublicMSUID\Exer8.asm](file:///\\eccentric\Class\csc320\001\YourPublicMSUID\Exer8.asm)